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Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	included in the plan.	
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility	
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.		
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: The Sittle	Date:09/30/2021	
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471	
OCD Only		
Received by: Robert Hamlet	Date: 9/2/2022	
☐ Approved	Approval	
Signature: Robert Hamlet	Date: 9/2/2022	

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	nAPP2111230058
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### **Responsible Party**

Dagmangihla	Douts: F.O.O.				OCDID	~~~	
Responsible Party EOG Resources, Inc.		OGRID 7					
Contact Name Chase Settle		Contact Telephone 575-748-1471					
Contact ema	<sup>ւil</sup> Chase_	Settle@eogre	esources.com	1		(assigned by OCD)	nAPP2111230058
Contact mai	ling address	104 S. 4th St	reet, Artesia,	NM 8	8210		
			Location	n of R	Release S	ource	
Latitude 32	.71795				Longitude	-104.43988	
			(NAD 83 in a	lecimal de	grees to 5 decir	nal places)	
Site Name 🗸	otoo AS E	ee Battery			Site Type	Pottoni	
		04/16/2021			API# (if app		
		104/10/2021			111 1 (9 up)		
Unit Letter	Section	Township	Range		Cour	nty	
K	25	18S	25E	Edd	V		
	_	L -		<b> </b>	<u>-</u>		
Surface Owne	er: State	☐ Federal ☐ T	ribal 🔽 Private	(Name:			)
			Nature an	d Vo	luma of I	Ralaasa	
			ivature an	iu vo	iuiiic oi i	KCICASC	
					tions or specific	1	volumes provided below)
Crude Oi			ed (bbls) Unkno	wn		Volume Recov	
Produced	l Water	Volume Releas	ed (bbls)			Volume Recov	rered (bbls)
Is the concentration of dissolved chloride in produced water >10,000 mg/l?		e in the	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/Weigh	nt Recovered (provide units)			
Cause of Re	lease Histor	rical impacts di	scovered durir	na the	P&A of the	batterv. Rele	ease volume and date are
	unkno	own. '		5		,	

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☑ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
<u> </u>	ecoverable materials have been removed and dabove have not been undertaken, explain v	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase		Title: Rep Safety & Environmental Sr
Signature: Thas	ettle	Date: 04/21/2021
email: Chase_Settle	@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only		
Received by:		Date:

		Page 4	of	52
nt ID	nAPP21112300	58		

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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?	>100 (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 <b>not</b> 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  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		
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody		

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

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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	Title: Rep Safety & Environmental Sr	
Printed Name: Chase Settle Signature: And Sittle	Date: 09/30/2021	
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471	
OCD Only		
Received by:	Date:	

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Incident ID	nAPP2111230058	
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Facility ID		
Application ID		

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation point</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>✓ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
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Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Printed Name: Chase Settle Signature: Augustus	Date:09/30/2021
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	Date:

2135 S. Loop 250 W, Midland, Texas 79703 United States www.ghd.com GHD 527

GHD reference: 11228401

May 17, 2022

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

Re: Remediation Update Report Yates AS Fee Battery Release Site EOG Resources Inc.

Incident ID: nAPP2111230058

K-25-18S-25E, Eddy County, New Mexico

To Whom It May Concern:

#### 1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Remediation Update Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, remedial activities, and analyses in the affected area at the EOG Yates AS Fee Battery Release Site (Site). The Site is located in Unit Letter K Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.71795 N latitude and 104.43988 W longitude. The release occurred on private surface land. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3.

### 2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on April 21, 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 site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

The Release Notification, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2111230058 are attached to the front of this report.

#### Groundwater and Site Characterization 3.

GHD characterized the Site according to Table I 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.

A review of the Office of the State Engineer (OSE) Point of Diversion (POD) Locations Website revealed a water well located approximately 0.31 miles to the south of the Site with a depth to groundwater of 194 feet below ground surface (ft bgs). The water well was installed on November 7, 2017 through November 13, 2017, and was assigned POD Number RA 12548 POD1. The water well is located at GPS coordinates, 32.713077 N latitude and 104.439977 W longitude. Depth to groundwater for this Site is greater than one hundred (100) feet below ground surface. 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 and meets the closure criteria for depth to groundwater greater than one hundred (100) ft in Table I in NMAC 19.15.29.12. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, Point of Diversion Summary for RA 12548 POD1 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	10 mg/kg
BTEX	50 mg/kg

#### **Initial Soil Delineation Assessment Summary and Findings** 4.

On May 19, 2021, GHD and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed seventeen (17) test pits within the suspected impacted area. Soil samples were collected from two (2) to fourteen (14) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated none of the soil samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria. Depth to groundwater was unknown during this phase of investigation.

On July 6 through July 8, 2021, GHD and EOG contractor Culberson Construction Energy Services (CCI), returned to the site to extend test pits TP-1 through TP-6, TP-8, TP-10 through TP-12, TP-14 and TP-16

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deeper and install an additional six (6) new test pits, TP-18 through TP-23. Soil samples were collected at varying depths and 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 only one sample; TP-2-20 exhibited GRO plus DRO TPH concentrations above Table I closure criteria with a concentration of 1,293 mg/kg.

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 D.

#### **Completed Remedial Activities to Date** 5.

From March 8 through March 22, 2022, GHD oversaw remedial excavation activities at the Site by Standard Safety and Supply (SS). Soils within the first four (4) feet containing TPH and chloride exceedances of Table I closure criteria for 19.15.29.13 for restoration. The area around TP-2 was excavated to a depth of approximately twenty (22) feet below grade. During excavation activities soil staining was observed in the south-eastern portion of the excavation; therefore, a test pit (TP24) was installed to a depth of approximately twenty (20) ft bgs, samples were collected at varying depths. Seven (7) test pit, one hundred twenty-three (123) composite confirmation bottom hole samples, and twenty-five (25) composite confirmation sidewall samples were collected and 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 twenty (20) samples with TPH exceedances above Table I closure criteria for depth to water greater than one hundred (100) feet; TP24-8, TP24-10, TP24-12, TP24-16, BH-40, BH-47, BH-48, BH-49, BH-54, BH-72, BH-73, BH-77, BH-95, BH-113, BH-121, BH-123, SW-18, SW-19, SW-24, and SW-25. Five (5) samples exhibited TPH or chloride concentrations above Table I closure criteria for 19.15.29.13 for restoration in the top four (4) feet of the excavation; SW-10, SW-11, SW-13, SW-14, and SW-17.

Due to the exceedances listed above, GHD and SS returned to the Site on March 30, 2022, to further excavate select areas. The area around BH-40, BH-47, BH-48, BH-49, and BH-54, was excavated to approximately twenty-one (21) feet below grade. The area around BH-72, BH-73, and BH-77 was excavated to approximately twelve (12) to fifteen (15) feet below grade. Fifteen (15) bottom hole composite confirmation samples (BHX-1 through BHX-15) and twenty-five (25) sidewall composite confirmation samples (SW-10 and SWX-1 through SWX-24) were collected on March 30 and March 31, 2022, and submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated six (6) confirmation samples with TPH exceedances above Table I closure criteria: BHX-2, BHX-3, BHX-11, BHX-14, BHX-15 and SWX-24. One (1) confirmation sample exhibited TPH concentrations above Table I closure criteria for 19.15.29.13 for restoration within the top four (4) feet of the excavation; SW-10 (resample of original SW-10 wall location after further excavation).

Due to the exceedances listed above, GHD and SS returned to the Site on April 25, 2022, to further excavate select areas with TPH concentrations in exceedance of Table I closure criteria. Between April 25 and May 5, 2022, ten (10) bottom hole confirmation samples and twenty-four (24) sidewall composite confirmation samples were collected and 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. Any time analytical results indicated a TPH concentration in exceedance of Table I closure criteria, that area was excavated further and resampled. A portion of the final confirmation samples were submitted to Cardinal Laboratories in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA

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Method 300. Final excavation depths ranged from four (4) to twenty-five (25) feet below grade. Analytical results of final composite confirmation samples indicated no exceedances above Table I closure criteria except for BHX-14A and SW-11A.

On May 9, 2022, SS mobilized a hammer hoe to the site to further excavate the area represented by BHX-14A due to a hard rock layer being present at twenty-five (25) feet below grade preventing further excavation utilizing a track hoe. SS excavated the area represented by BHX-14A an additional two feet below ground surface and further excavated the area represented by SW-11A. GHD returned to the site on May 12, 2022, to collect additional samples in the area represented by BHX-14A and SW-11A. Analytical results indicated no Table I closure criteria over the limits for groundwater greater than one hundred (100) feet for BHX-14B. However, SW-11B did exhibit TPH concentrations above Table I concentrations.

On May 17, 2022, GHD and SS returned to the site to further excavated the area represented by SW-11B and collected a new sidewall confirmation sample, SW-11C. The results for the confirmation sample are still pending.

Figure 3 depicts the locations of the confirmation samples. Analytical results are provided in Table 1, and in the Laboratory Analytical Reports provided in Attachment D. A Photographic Log is provided as Attachment B and Confirmation Sampling Notifications are provided as Attachment C.

#### **Waste Management** 6.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. To date, approximately 10,249.50 tons of impacted soil have been disposed at Lea Land, LLC, the waste manifests from March 9 through May 11, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2.

#### nAPP2111230058 Proposed Activities 7.

Once the analytical results for confirmation sample SW-11C which was collected on May 17, 2022, are received, GHD and EOG will evaluate to determine what activities will be required to move the site toward closure. If the results are below Table I closure criteria a closure report will be prepared and the excavation will be backfilled. If any of the samples are over Table I closure criteria those areas will be further excavated and a new confirmation sample will be collected.

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

Sincerely,

**GHD** 

Becky Haskell

Senior Project Manager

Thomas C. Larson **Project Director** 

Thomas Clayon

BH/tl/1

Encl. Figure 1 – Site Location Map

Rebecca Haskell

Figure 2 - Site Assessment Soil Analytical Results Map Figure 3 - Confirmation Sampling Analytical Results Map

Table 1 – Summary of Soil Analytical Data

Table 2 – Soil Disposal Summary

Attachment A – Site Characterization Documentation

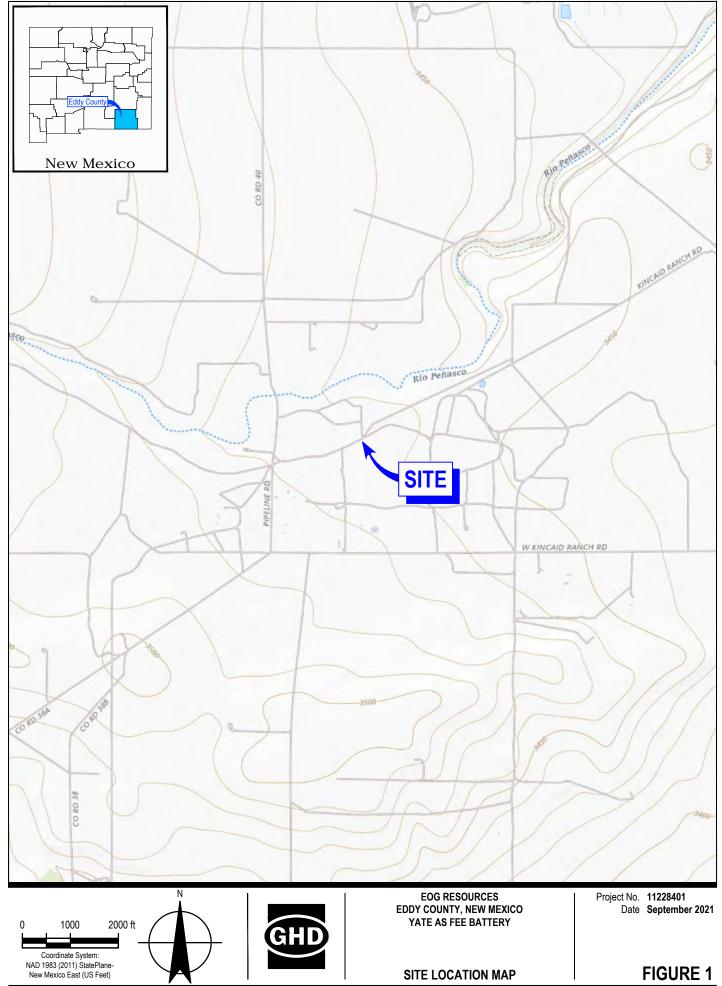
Attachment B - Photographic Log

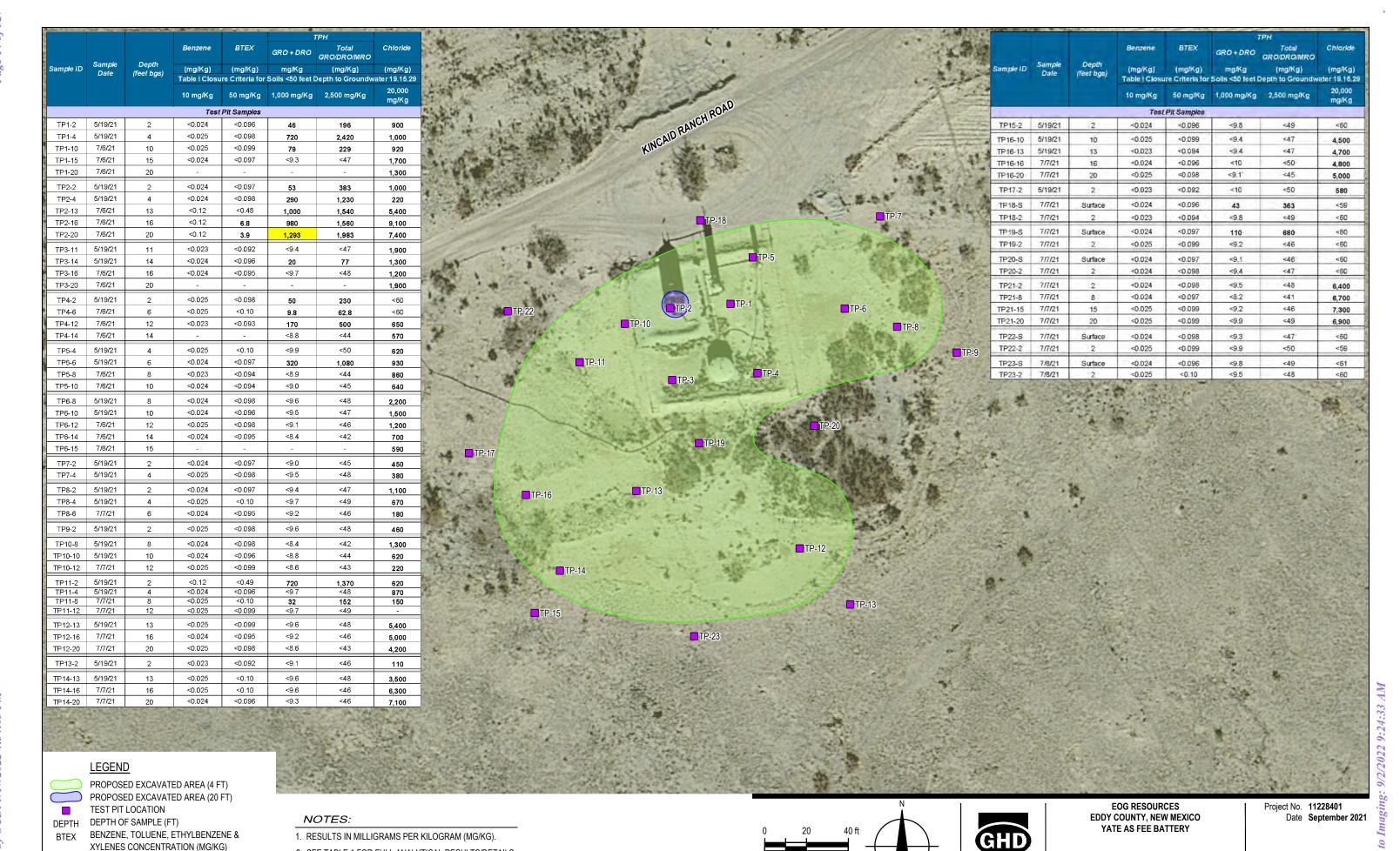
Attachment C – Confirmation Sampling Notifications

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

Chase Settle CC:

**Figures** 





Coordinate System

NAD 1983 (2011) StatePlane

TOTAL PETROLEUM HYDROCARBONS

CONCENTRATION (MG/KG)

2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.

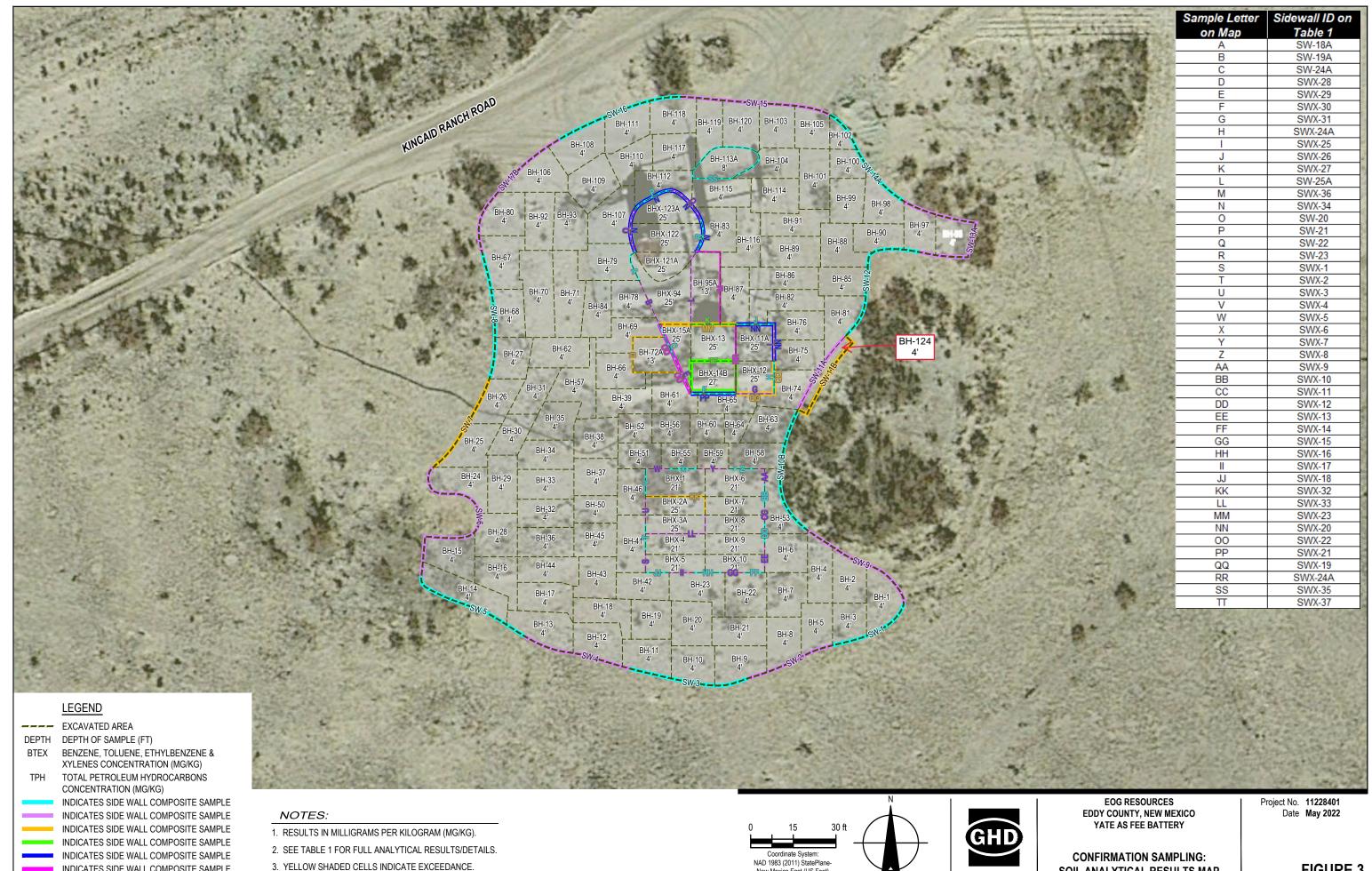
3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

FIGURE 2

SITE ASSESSMENT:

SOIL ANALYTICAL RESULTS MAP

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New Mexico East (US Feet)

INDICATES SIDE WALL COMPOSITE SAMPLE

**SOIL ANALYTICAL RESULTS MAP** 

FIGURE 3

**Tables** 

									Total Pet	roleum Hydroca	rbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Date	(It bys)		1	Та	ble I Closure C	riteria for Soils	s >100 feet Dep	th to Groundwa	ater 19.15.29 NN	IAC		
			10 mg/kg				50 mg/kg	-		1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
	•	•	•		Tes	st Pit Samples	•	•				·	
TP1-2	5/19/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	46	46	150	196	900
TP1-4	5/19/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	720	720	1700	2,420	1,000
TP1-10	7/6/21	10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	79	79	150	229	920
TP1-15	7/6/21	15	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<9.3	<47	<47	1,700
TP1-20	7/6/21	20	-	-	-	-	-	-	-	-	-	-	1,300
TP2-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	53	53	330	383	1,000
TP2-4	5/19/21	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	290	290	940	1,230	220
TP2-13	7/6/21	13	<0.12	<0.24	<0.24	<0.48	<0.48	<24	1,000	1,000	540	1,540	5,400
TP2-16	7/6/21	16	<0.12	<0.24	2.4	4.4	6.8	140	840	980	580	1,560	9,100
TP2-20	7/6/21	20	<0.12	<0.24	1.7	2.2	3.9	93	1,200	1,293	690	1,983	7,400
TP3-11	5/19/21	11	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<9.4	<47	<47	1,900
TP3-14	5/19/21	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	20	20	57	77	1,300
TP3-16	7/6/21	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<9.7	<48	<48	1,200
TP3-20	7/6/21	20	-	-	-	-	-	-	-	-	-	-	1,900
TP4-2	5/19/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	50	50	180	230	<60
TP4-6	7/6/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	9.8	9.8	53	62.8	<60
TP4-12	7/6/21	12	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	170	170	330	500	650
TP4-14	7/6/21	14	-	-	-	-	-	<4.9	<8.8	<8.8	<44	<44	570
TP5-4	5/19/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<9.9	<50	<50	620
TP5-6	5/19/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	320	320	760	1,080	930
TP5-8	7/6/21	8	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.9	<8.9	<44	<44	860
TP5-10	7/6/21	10	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.0	<9.0	<45	<45	640
TP6-8	5/19/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	2,200
TP6-10	5/19/21	10	<0.024	<0.049	<0.049	<0.096	<0.096	<4.8	<9.5	<9.5	<47	<47	1,500
TP6-12	7/6/21	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1	<46	<46	1,200
TP6-14	7/6/21	14	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<8.4	<8.4	<42	<42	700
TP6-15	7/6/21	15	-0.024	-			-0.000	-	-	-	-	-	590
TP7-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<9.0	<45	<45	450
TP7-4	5/19/21	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<9.0 <9.5	<48	<48	380
										1 1		-	
TP8-2	5/19/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<9.4	<47	<47	1,100
TP8-4	5/19/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<9.7	<49	<49	670
TP8-6	7/7/21	6	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.2	<9.2	<46	<46	180
TP9-2	5/19/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	460
TP10-8	5/19/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.4	<8.4	<42	<42	1,300
TP10-10	5/19/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<8.8>	<44	<44	620
TP10-12	7/7/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.6	<8.6	<43	<43	220
TP11-2	5/19/21	2	<0.12	<0.25	<0.25	<0.49	<0.49	<25	720	720	650	1,370	620

									Total Pet	roleum Hydroca	rbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample	Depth	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
,	Date	(ft bgs)	(33/	( 3 3/						ater 19.15.29 NM		(53)	( 3 3)
			10 mg/kg				50 mg/kg	-		1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
TP11-4	5/19/21	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<9.7	<48	<48	870
TP11-8	7/7/21	8	<0.025	<0.050	<0.050	<0.010	<0.10	<5.0	32	32	120	152	150
TP11-12	7/7/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<9.7	<49	<49	-
TP12-13	5/19/21	13	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<9.6	<48	<48	5,400
TP12-16	7/7/21	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.2	<9.2	<46	<46	5,000
TP12-20	7/7/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<8.6	<43	<43	4,200
TP13-2	5/19/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<9.1	<46	<46	110
TP14-13	5/19/21	13	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<9.6	<48	<48	3,500
TP14-16	7/7/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<9.6	<46	<46	6,300
TP14-20	7/7/21	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<9.3	<46	<46	7,100
TP15-2	5/19/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<60
TP16-10	5/19/21	10	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	4,500
TP16-13	5/19/21	13	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<9.4	<47	<47	4,700
TP16-16	7/7/21	16	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	4,800
TP16-20	7/7/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1`	<45	<45	5,000
TP17-2	5/19/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<10	<50	<50	580
TP18-S	7/7/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	43	43	320	363	<59
TP18-2	7/7/21	2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<9.8	<49	<49	<60
TP19-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	110	110	570	680	<60
TP19-2	7/7/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<9.2	<46	<46	<60
TP20-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.1	<9.1	<46	<46	<60
TP20-2	7/7/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<9.4	<47	<47	<60
TP21-2	7/7/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<9.5	<48	<48	6,400
TP21-8	7/7/21	8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.2	<8.2	<41	<41	6,700
TP21-15	7/7/21	15	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.2	<9.2	<46	<46	7,300
TP21-20	7/7/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	6,900
TP22-S	7/7/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<9.3	<47	<47	<60
TP22-2	7/7/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<9.9	<50	<50	<59
TP23-S	7/8/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<61
TP23-2	7/8/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<9.5	<48	<48	<60
TP24-8	3/10/22	\$	7.2	₹0:13	7.9	17	26.1	310	1,300_	1,640	540	2,150	420
TP24-10	3/10/22	10	2.5	0:23	9.8	24	39.53	350	2,900	3,250	1,300	4,550	<del>5</del>
TP24-12	3/10/22	12_	3.5	₹0:19	#	24	35.5	540	3,700_	4,240	1,400	5,640	1,100_
TP24-14	3/10/22	14	0:35	₹0:20	2.6	1:3	4:25	67	810	877	470	1,347	1,400
TP24-16	3/10/22	16	<0.097	<del>₹0.19</del>	1:6	0.84	2:41	72	990	1,062	340	1,402	1,300
TP24-18	3/10/22	18	<0.083	₹0.17	₹0.47	₹0.33	₹0:33	<del>-47</del>	300	300	120	420	1,200
TP24-20	3/10/22	20	<0.094	₹0:49	0.39	₹0:38	0.39	20	530	550	280	830	1,200

									Total Pet	roleum Hydroca	rbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample	Depth	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Date	(ft bgs)	(99)	(gg)						ater 19.15.29 NM		(99)	(9,9)
			10 mg/kg				50 mg/kg	-		1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
	•			•	Bottom Hole	Confirmation	Samples	•				•	
BH-1	3/11/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<9.2	<46	<46	430
BH-2	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.8	<8.8	<44	<44	84
BH-3	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.5	<9.5	<48	<48	480
BH-4	3/11/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<9.7	<49	<49	270
BH-5	3/11/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<9.5	<48	<48	110
BH-6	3/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.1	<9.1	<46	<46	530
BH-7	3/11/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<9.6	<48	<48	440
BH-8	3/11/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	220	220	100	320	1,400
BH-9	3/11/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	21	21	<49	21	2,300
BH-10	3/11/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<9.5	<47	<47	1,700
BH-11	3/11/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	1,300
BH-12	3/11/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<9.8	<49	<49	2,200
BH-13	3/11/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<9.6	<48	<48	3,200
BH-14	3/11/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<50	<50	1,800
BH-15	3/11/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	36	36	86	122	830
BH-16	3/11/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<9.6	<48	<48	3,300
BH-17	3/11/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<9.4	<47	<47	6,200
BH-18	3/11/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	41	41	<48	41	1,000
BH-19	3/11/22	4	<0.12	<0.25	<0.25	<0.49	<0.49	<25	55	55	58	113	1,100
BH-20	3/11/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	130	130	90	220	1,800
BH-21	3/11/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	49	49	96	145	600
BH-22	3/11/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	14	14	<49	14	760
BH-23	3/11/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	51	51	57	108	1,400
BH-24	3/14/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,300
BH-25	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	1,500
BH-26	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	120
BH-27	3/14/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	180
BH-28	3/14/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	130	130	190	320	870
BH-29	3/14/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<9.6	<48	<48	5,800
BH-30	3/14/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<9.6	<48	<48	3,500
BH-31	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<9.2	<46	<46	1,600
BH-32	3/14/22	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	700	700	1,100	1,800	540
BH-33	3/14/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	250	250	520	770	1,300
BH-34	3/14/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<9.4	<47	<47	2,700
BH-35	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<9.5	<48	<48	5,300
BH-36	3/14/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	310	310	1,000	1,310	1,100
BH-37	3/14/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	78	78	210	288	1,700
BH-38	3/14/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<9.0	<45	<45	1,900
BH-39	3/14/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<9.9	<49	<49	890

					Eddy C	ounty, New Me	XICO						
·									Total Peti	roleum Hydroca	rbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Date	(It bys)			Та	ble I Closure C	riteria for Soils	>100 feet Dep	th to Groundwa	ter 19.15.29 NN	IAC		
			10 mg/kg				50 mg/kg	-	-	1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
BH-40	3/15/22	#	₹0.12	₹0:23	₹0.23	≥0:46	≥0.46	<del>-23</del>	1,900	1,900	1,100	3,000	490
BHX-5 (BH-40A)	3/30/22	21	<0.022	<0.043	<0.043	<0.087	<0.087	<4.3	160	230	82	312	1,100
BH-41	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	11	11	<49	11	1,200
BH-42	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	87	87	350	437	1,700
BH-43	3/15/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	390	390	1,200	1,590	740
BH-44	3/15/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	310	310	740	1,050	1,100
BH-45	3/15/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	190	190	410	600	1,900
BH-46	3/15/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	500	500	400	900	520
BH-47	3/15/22	4	<0.023	₹0:047	0.058	0:45	0.208	<del>-4.7</del>	6,400	6,400	3,400	9,800	550
BHX-4 (BH-47A)	3/30/22	21	<0.017	<0.034	<0.034	<0.068	<0.068	<3.4	610	590	300	890	1,200
BH-48	3/15/22	4	<0.025	<0.049	<0.049	0.11_	0.11	₹4.9	1,200	1,200	1,400	2,600	260
BHX-8 (BH-48A)	3/30/22	21	<0.016	<0.031	<0.031	< 0.063	< 0.063	<3.1	220	220	120	340	1,800
BH-49	3/15/22	<b>#</b>	<0.025	<0:050	0:28	0.58	0.86	19	8,900	8,949	3,800	12,719	970
BHX-7 (BH-49A)	3/30/22	21	<0.019	< 0.037	<0.037	< 0.074	<0.074	<3.7	300	300	150	450	6,600
BH-50	3/15/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	130	130	400	530	140
BH-51	3/15/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	110	110	310	420	2,600
BH-52	3/15/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<9.8	<49	<49	4,800
BH-53	3/15/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	880	880	1,100	1,980	410
BH-54	3/15/22	1	<0.025	<del>&lt;0.049</del>	<0.049	<0.098	<0.098	<del>&lt;4.9</del>	5,000	5,000	2,500	7,500	710
BHX-1 (BH-54A)	3/30/22	21	<0.016	<0.031	<0.031	<0.062	<0.062	5.1	670	675	350	1,025	2,900
BH-55	3/16/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	30	30	55	85	450
BH-56	3/16/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	4,800
BH-57	3/16/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.1	<9.1	<45	<45	5,700
BH-58	3/16/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	290	290	480	770	260
BH-59	3/16/22	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	59	59	78	137	740
BH-60	3/16/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<9.8	<49	<49	410
BH-61	3/16/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<9.6	<48	<48	950
BH-62	3/16/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<9.9	<50	<50	1,000
BH-63	3/16/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	62	62	86	148	750
BH-64	3/16/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.5	<9.5	<48	<48	580
BH-65	3/16/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<9.3	<47	<47	470
BH-66	3/16/22	4	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.8	<9.8	<49	<49	280
BH-67	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<9.8	<49	<49	170
BH-68	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<9.7	<49	<49	250
BH-69	3/17/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<10	<50	<50	120
BH-70	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	1,400
BH-71	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<9.8	<49	<49	1,800
BH-72	3/17/22	4	₹0.12	₹0:25	0.32	2.4	2.42	85_	5,800	5,885	3,300_	9,185	1,900
BH-72A	4/28/22	13	<0.019	<0.039	<0.039	<0.077	<0.077	<3.9	270	270	200	470	2.200
					٠٥.٥٥٥	~0.011	~0.077	~5.5	210	210	200	770	2,200

									Total Pet	roleum Hydroca	rbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample	Depth	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Jam <i>pio</i> 12	Date	(ft bgs)	(mg/ng/	(9/1.9/						ater 19.15.29 NM		(1119/119)	(mg/kg)
			10 mg/kg				50 mg/kg	-		1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
BHX-14 (BH-73A)	3/34/22	15	<0.074	₹0:45	9.7	5.0	8.7	160	3,000	3,160	1,100	4,260	1,600_
BHX-14A (BH-73B)	4/27/22	25	₹0:10	₹0.20	0.47	₹0:40	0.47	28	2,700	2,728	1,100	3,828	1,600_
BHX-14B (BH-73C)	5/12/22	27	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	350	350	251	601	32.0
BH-74	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	79	79	160	239	290
BH-75	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	40	40	79	119	860
BH-76	3/17/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	810	810	980	1,790	320
BH-77	3/17/22	4	₹0.12	0.54	3.3	8.6	12:41	210	5,200	5,440	2,400	7,810	3,100
BHX-13 (BH-77A)	3/31/22	15	<0.071	<0.14	0.28	<0.29	0.28	20	580	600	270	870	1,700
BH-78	3/17/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	270	270	530	800	1,700
BH-79	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	16	16	<47	16	1,000
BH-80	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<10	<50	<50	120
BH-81	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	23	23	49	72	280
BH-82	3/17/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	260	260	400	660	300
BH-83	3/17/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	530	530	540	1,070	1,900
BH-84	3/17/22	4	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	210	210	280	490	1,400
BH-85	3/17/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	670
BH-86	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	130	130	170	300	750
BH-87	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	84	84	160	244	450
BH-88	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	21	21	78	99	1,500
BH-89	3/17/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	89	89	150	239	2,300
BH-90	3/17/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,900
BH-91	3/17/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	120	120	170	290	3,500
BH-92	3/21/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	140	140	180	320	2,100
BH-93	3/21/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	220	220	230	450	2,600
BH-94	3/21/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	110	110	160	270	1,300
BH-95	3/24/22	4	₹0.12	₹0:24	₹0.24	≥0.48	₹0.48	-24	3,700	3,700	2,400	6,100	560
BH-95A	4/28/22	8	<0.019	< 0.037	<0.037	<0.075	<0.075	<3.7	15	15	<44	15	1,600
BH-96	3/21/22	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	430
BH-97	3/21/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<9.9	<49	<49	480
BH-98	3/21/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<9.4	<47	<47	320
BH-99	3/21/22	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<9.8	<49	<49	1,900
BH-100	3/21/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	13	13	<46	13	1,500
BH-101	3/22/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	9.4	9.4	<46	9.4	1,200
BH-102	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	12	12	<50	12	1,700
BH-103	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	25	25	51	76	1,200
BH-104	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	68	68	100	168	2,100
BH-105	3/22/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<9.9	<49	<49	1,700
BH-106	3/22/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	99	99	150	249	220
	2/22/22		0.004	-0.040	-0.040	-0.005	-0.005	-4.0		68	67	405	E 200
BH-107	3/22/22	4	< 0.024	<0.048	<0.048	< 0.095	< 0.095	<4.8	68	00	67	135	5,300

									Total Pet	roleum Hydroca	arbons (TPH)		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Date	(It bys)			Та	ble I Closure C	riteria for Soils	>100 feet Dep	th to Groundwa	ater 19.15.29 NN	IAC		
			10 mg/kg				50 mg/kg	-		1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
BH-109	3/22/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	27	27	<47	27	5,200
BH-110	3/22/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<9.4	<47	<47	77
BH-111	3/22/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	77	77	64	141	3,900
BH-112	3/22/22	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	340	340	240	580	1,200
BH-113	3122122	#	₹0.12	₹0:24	₹0:24	₹0:48	₹0:48	~24	2,700	2,700	1,500	4,200	2,400
BH-113A	4/29/22	8	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	210	210	160	370	780
BH-114	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	540	540	530	1,070	1,500
BH-115	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	170	170	120	290	1,800
BH-116	3/22/22	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	260	260	180	440	2,600
BH-117	3/22/22	4	<0.12	<0.25	<0.25	<0.50	<0.50	<25	38	38	<50	38	980
BH-118	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	930	930	480	1,410	4,400
BH-119	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	480	480	220	700	3,300
BH-120	3/22/22	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	520	520	220	740	4,100
BH-121	3122/22	22	₹0.12	₹0:24	₹0.24	≥0.48	₹0:48	~24	2,100	2,100	95 <del>5</del>	3,050	5,100
BH-121A	4/29/22	25	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	540	540	320	860	6,500
BH-122	3/22/22	22	<0.12	<0.24	<0.24	<0.49	<0.49	<24	52	52	<48	52	4,700
BH-123	3122/22	22	₹0:46	₹0:93	<del>*</del>	16	29	370	6,300	6,670	2,100	8,770	6,100
BH-123A	4/29/22	25	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	700	700	420	1,120	3,400
BH-124	5/12/22	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	194	194	119	313	176
BHX-2	3/30/22	24	<0.016	<del>₹0.03</del> 2	0.038	<del>≥0.065</del>	0:038	16	1,400	1,446	<del>520</del>	1,936	3,300
BHX-2A	5/5/22	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	200	200	35.6	235.6	3,120
BHX-3	3/30/22	21	<0.048	<0.035	<0.035	≥0:071	≥0.071	5.5	1,200	1,206	500	1,706	3,500
BHX-3A	5/5/22	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	160	160	31.0	191	2,040
BHX-6	3/30/22	21	<0.015	<0.030	<0.030	<0.061	<0.061	3.8	440	444	200	644	7,200
BHX-9	3/30/22	21	<0.016	<0.031	<0.031	<0.062	<0.062	<3.1	450	450	220	670	1,900
BHX-10	3/30/22	21	<0.016	<0.032	<0.032	<0.063	<0.063	<3.2	420	420	190	610	1,900
BHX-11	3/31/22	12	<0.094	₹0:19	0.57	₹0:38	0.57	43	3,000	3,043	1,000	4,043	1,300
BHX-11A	4/27/22	25	<0.091	<0.18	<0.18	<0.37	<0.37	<18	1,000	1,000	490	1,490	1,400
BHX-12	3/31/22	12	<0.088	<0.18	<0.18	<0.35	<0.35	<18	120	120	100	220	960
BHX-15	3/31/22	15	<0.084	₹0.47	0.48	₹0.33	0.48	26	1,600	1,626	1,200	2,826	1,700
BHX-15A	4/27/22	25	<0.093	<0.19	<0.19	<0.37	<0.37	<19	410	410	200	610	2,000
O.M. 4	0/4.4/00	0:1 "	2.005	0.040		onfirmation Sa				-0.0	-10	10	100
SW-1	3/14/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<9.3	<46	<46	160
SW-2	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.1	<9.1	<46	<46	99
SW-3	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<9.5	<48	<48	160
SW-4	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<9.3	<46	<46	<59 <60
SW-5	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.0	<9.0	<45	<45	<60
SW-6	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<9.5	<47	<47	77
SW-7	3/14/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.1	<9.1	<46	<46	<60
SW-8	3/14/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	190
SW-9	3/14/22	Sidewall	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<9.7	<48	<48	<60

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										roleum Hydroca			
	0	2	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Dute	(It bgs)		1	Та	ble I Closure C	riteria for Soils	s >100 feet Dep	th to Groundwa	ater 19.15.29 NN	IAC		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
<del>SW-10</del>	3/16/22	Sidewall	<0.024	≥0.049	0.075	0.36	0:435	<del>24.9</del>	72	72	160	232	120
SW-10	3/30/22	Sidewall	<0.024	₹0.048	<0.048	<del>&lt;0.09</del> 7	<del>&lt;0.09</del> 7_	<del>24.8</del>	150	150	350	500	64
SW-10A	4/26/22	Sidewall	₹0.021	₹0.041	₹0.041	<del>&lt;0.08</del> 3	<del>₹0.08</del> 3	<del></del>	170	170	360	530	86
SW-10B	5/6/22	Sidewall	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
<del>SW-11</del>	3/18/22	Sidewall	<0.025	<del>₹0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.09</del> 8	<del>≥0:09</del> 8	<del>24.0</del>	74	74	200	274	270
SW-11A	5/6/22	Sidewall	<0.050	<0.050	<0.050_	<del>≥0.15</del> 0	<del>≥0:300</del>	₹10.0	145	145	122	267	32.0
SW-11B	5/12/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,010	1,010	157	1,167	2,140
SW-12	3/18/22	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	200
<del>SW-13</del>	3/18/22	Sidewall	₹0.024	<del>₹0.049</del>	₹0.049	<del>&lt;0.09</del> 7	<del>≥0.09</del> 7	<del>-4.0</del>	<del>16</del>	16	<del>50</del>	66	660
SW-13A	5/6/22	Sidewall	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10.8	10.8	128
SW-14	3/18/22	Stdewall	₹0.42	₹0.25	₹0:25	₹0:49	₹0:49	-25	630	630	950	1,580	170
SW-14A	5/6/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-15	3/18/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	86	86	150	236	350
SW-16	3/18/22	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<9.5	<48	<48	200
SW-17	3/18/22	Sidewall	<0.025	≥0.050	<0.050	<0.099	<0.099	₹5.0	110	110	190	300	85
SW-17A	4/25/22	Stdewall	≥0:089	₹0.18	₹0.18	≥0.36	₹0.36	<del>~18</del>	<del>-97</del> _	<del>~97</del>	<490_	<del>~490</del>	850
SW-17B	4/29/22	Sidewall	<0.022	<0.045	<0.045	<0.089	<0.089	<4.5	<9.7	<9.7	<48	<48	<60
SW-18	3/22/22	Sidewall	₹0.12	₹0.24	3.0	2.2	5.2	120	3,500	3,620	1,300	4,920	6,190
SW-18A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
<del>SW-19</del>	3/22/22	Sidewall	₹0.42	₹0.24	0.42	≥0.49	0.42	-54	1,500	1,551	700	2,251	4,000
SW-19A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,540
SW-20	3/22/22	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<9.9	<50	<50	4,200
SW-21	3/22/22	Sidewall	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<9.6	<48	<48	3,700
SW-22	3/22/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	11	11	<46	11	2,700
SW-23	3/22/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	11	11	<48	11	5,200
<del>SW-24</del>	3/22/22	Sidewall	₹0.42	₹0.25	₹0:25	<del>≥0.5</del> 0	≥0:50	-25-	1,400	1,400	650	2,050	6,400
SW-24A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,040
<del>SW-25</del>	3/22/22	Stdewall	₹0.42	₹0.24	₹0.24	≥0.49	₹0:49	₹24	2,400	2,400	930	3,330	7,300
SW-25A	5/5/22	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,870
SWX-1	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<9.1	<46	<46	840
SWX-2	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<10	<50	<50	870
SWX-3	3/30/22	4-21'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<9.8	<49	<49	740
SWX-4	3/30/22	4-21'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.8	<9.8	<49	<49	720
SWX-5	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<9.9	<50	<50	650
SWX-6	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<9.6	<48	<48	720
SWX-7	3/30/22	4-21'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<9.5	<47	<47	710
	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<9.5	<48	<48	820
SWX-8	3/30/22												
SWX-8 SWX-9	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<9.8	<49	<49	780
	-	+	1	1			1	<4.9 <4.9	1	<9.8 <9.1	<49 <46	<49 <46	780 730

#### Table 1 **Summary of Soil Analytical Data** Yate AS Fee Battery **EOG Resources Eddy County, New Mexico**

									Total Pet	roleum Hydroca	arbons (TPH)		
	Commis	Donath	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	Depth (ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Butt	(it 2g5)			Та	ble I Closure C	riteria for Soils	>100 feet Dep	oth to Groundw	ater 19.15.29 NN	IAC		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
SWX-12	3/30/22	4-21'	<0.025	< 0.050	<0.050	<0.10	<0.10	<5.0	29	29	<46	29	900
SWX-13	3/30/22	4-21'	<0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	25	25	<50	25	940
SWX-14	3/30/22	4-21'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<9.7	<48	<48	720
SWX-15	3/30/22	4-21'	<0.12	<0.25	<0.25	<0.50	<0.050	<25	610	610	460	1,070	620
SWX-16	3/30/22	4-21'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	340	340	320	660	700
SWX-17	3/30/22	4-21'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	270	270	270	540	840
SWX-18	3/30/22	4-21'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	89	89	120	209	800
SWX-19	3/31/22	4-12'	<0.12	<0.25	<0.25	<0.50	<0.050	<25	570	570	430	1,000	900
SWX-20	3/31/22	4-12'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	210	210	380	590	550
SWX-21	3/31/22	4-12'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	83	83	160	243	1,000
SWX-22	3/31/22	4-12'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	51	51	82	133	1,600
SWX-23	3/31/22	4-12'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	210	210	290	500	1,200
SWX-24	3/31/22	12-15'	₹0.12	₹0:25	1:6	1.6	3.2	94	2,400	2,491	1,200	3,691	1,500
SWX-24A	4/28/22	12-25'	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.8	<9.8	<49	<49	1,000
SWX-25	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
SWX-26	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SWX-27	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
SWX-28	5/5/22	4-13'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,220
SWX-29	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
SWX-30	5/5/22	15-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
SWX-31	5/5/22	12-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
SWX-32	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	801	801	136	937	6,160
SWX-33	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	269	269	61.1	330.1	2,840
SWX-34	5/5/22	21-25'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,100
SWX-35	5/5/22	4-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.3	31.3	<10.0	31.3	1,730
SWX-36	5/5/22	4-13'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	229	229	166	395	1,520
SWX-37	5/12/22	5-27'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	553	553	97	650	2,880

- Notes:

  1. Values reported in mg/kg

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

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

B-BH 2 Sample Point Excavated

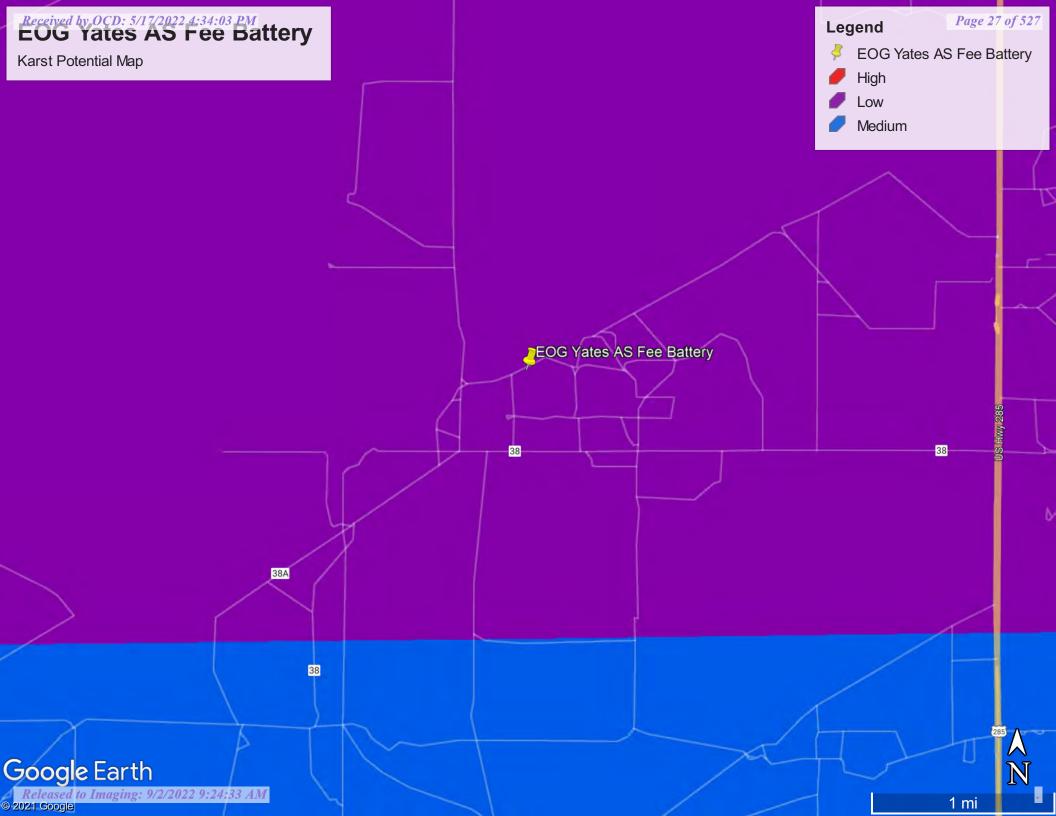
- 5. TPH analyses by EPA Method SW 8015 Mod.

- RGN/DRO/MRO = Gasoline/Diesel/Motor Oil
   Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
   Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

# Table 2 Daily Disposal Summary Yates AS Fee Battery EOG Resources Eddy, County, New Mexico

Date of	Total Pounds	Total Tons
Disposal	Disposed	Disposed
3/9/2022	1,009,700	504.85
3/10/2022	1,565,700	782.85
3/11/2022	73,360	36.68
3/14/2022	1,978,080	989.04
3/15/2022	1,933,540	966.77
3/16/2022	2,054,840	1,027.42
3/17/2022	1,791,080	895.54
3/18/2022	503,160	251.58
3/21/2022	779,620	389.81
3/22/2022	1,694,660	847.33
3/23/2022	1,297,520	648.76
3/24/2022	938,300	469.15
3/25/2022	98,340	49.17
3/31/2022	1,115,340	557.67
4/1/2022	347,800	173.90
4/26/2022	1,078,440	539.22
4/29/2022	668,420	334.21
5/2/2022	604,900	302.45
5/3/2022	870,740	435.37
5/11/2022	95,460	47.73
Project Total	20,499,000	10,249.50

## Attachment A Site Characterization Documentation



## **OSE PUBLIC PRINT**



5/19/2021, 3:23:43 PM GIS WATERS PODs

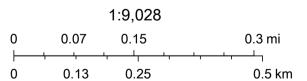
- Active
- Pending

OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



Page 28 of 527

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



## New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64Q16Q4 Sec Tws Rng

X

20642 RA 12548 POD1 3 25 18S 25E

552484 3619618

**Driller License: 1348 Driller Company:** 

TAYLOR WATER WELL SERVICE

**Driller Name:** TAYLOR, CLINTON E.

Drill Start Date: 11/07/2017

**Drill Finish Date:** 

11/13/2017

Plug Date:

Log File Date:

12/14/2017

PCW Rcv Date:

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

Estimated Yield: 2 GPM

**Casing Size:** 

4.50

Depth Well:

255 feet

**Depth Water:** 

194 feet

Water Bearing Stratifications:

**Casing Perforations:** 

**Top Bottom Description** 

194 206

Shale/Mudstone/Siltstone Shale/Mudstone/Siltstone

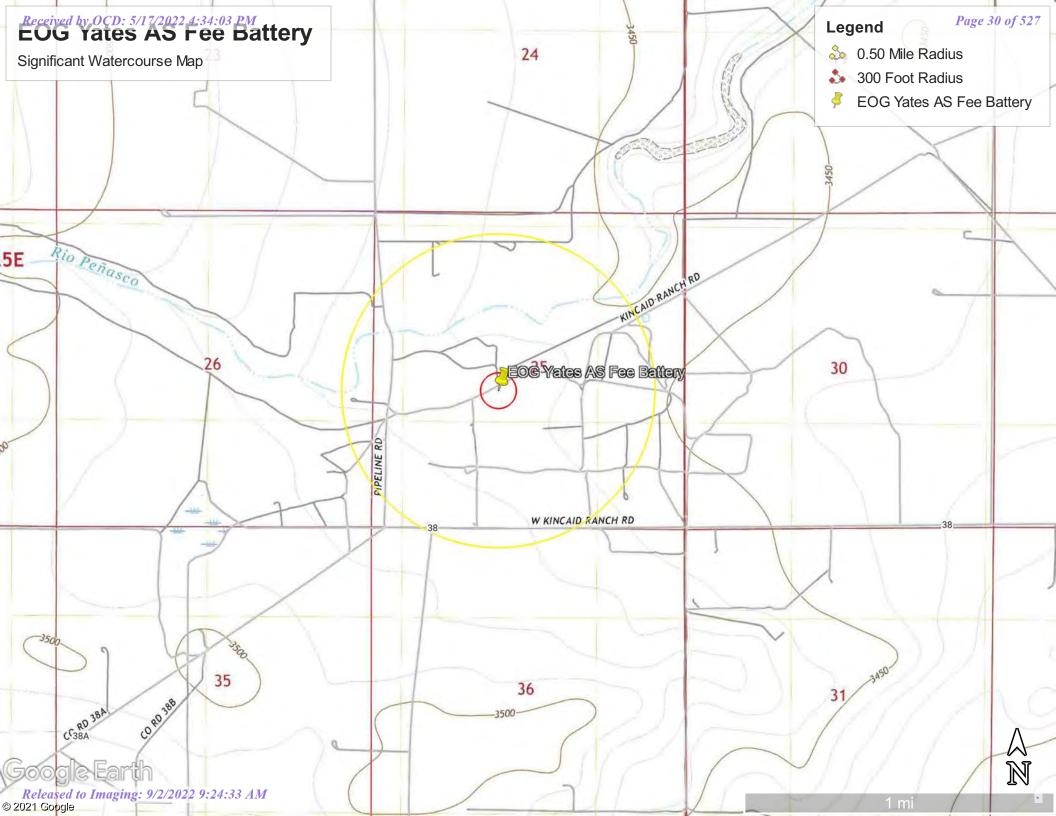
**Top Bottom** 

175 255

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/19/21 2:28 PM

POINT OF DIVERSION SUMMARY





## **EOG Yates AS Fee Battery**



September 14, 2021

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

011

Riverine

Other

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.

OReleas 240 Im 5 9/2/2022 9:209:33 AM

## National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) 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 FLOOD HAZARD Area with Flood Risk due to Levee Zone D 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 | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

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 pin displayed on the map is an approximate point selected by the user and does not represent

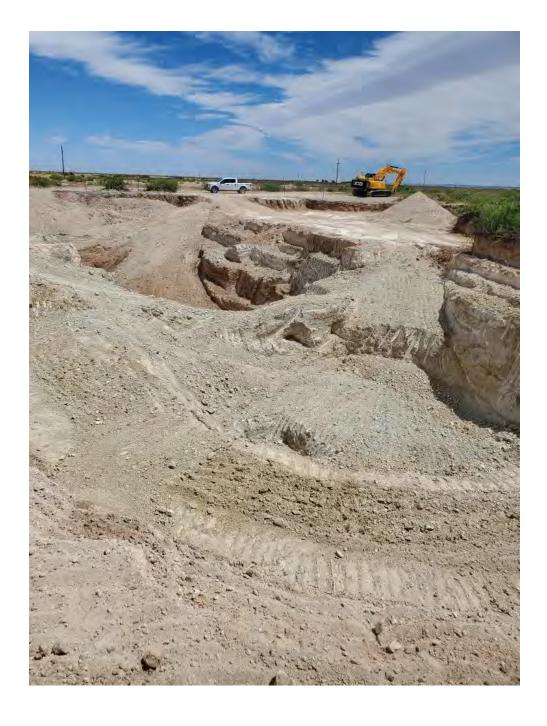
an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/14/2021 at 10:26 AM 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 unmapped and unmodernized areas cannot be used for regulatory purposes.



## Attachment B Photographic Log





Site Photograph

**EOG Yates AS Fee Release Site.** 

GHD | Report for EOG | 11228401

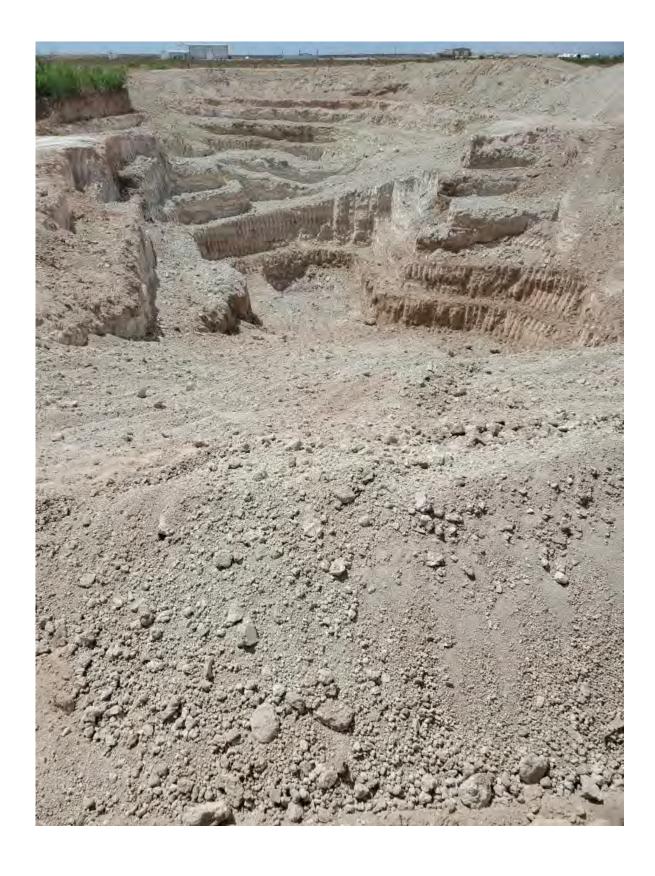




**Site Photograph** 

**EOG Yates AS Fee Release Site.** 

GHD | Report for EOG | 11228401



GHD | Report for EOG | 11228401

# Attachment C Confirmation Sampling Notifications

**From:** Chase Settle < Chase\_Settle@eogresources.com>

Sent: Thursday, March 3, 2022 3:49 PM

**To:** Becky Haskell; Zach Comino; Tom Larson

**Subject:** FW: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Miriam Morales < Miriam\_Morales@eogresources.com >

Sent: Thursday, March 3, 2022 2:42 PM

**To:** Robert.Hamlet@state.nm.us

**Cc:** Artesia Regulatory < Artesia\_Regulatory@eogresources.com>; Katie Jamison

<Katie Jamison@eogresources.com>; Chase Settle <Chase Settle@eogresources.com>; Bob Asher

<Bob Asher@eogresources.com>; Yvette Moore <Yvette Moore@eogresources.com>

Subject: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Good afternoon,

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

Yates AS Fee Battery K-25-18S-25E Eddy County, NM nAPP2111230058

Sampling will begin at 8:00 a.m. on Friday, March 11, 2022.

Thank you,

Miriam Morales

**From:** Amber Griffin < Amber\_Griffin@eogresources.com>

Sent: Wednesday, March 9, 2022 10:50 AM

**To:** Zach Comino; Becky Haskell

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you, Amber Griffin

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Wednesday, March 9, 2022 9:36 AM

To: Tina Huerta <Tina Huerta@eogresources.com>

**Cc:** Artesia Regulatory <Artesia\_Regulatory@eogresources.com>; Chase Settle <Chase\_Settle@eogresources.com>; Yvette Moore <Yvette\_Moore@eogresources.com>; Katie Jamison <Katie\_Jamison@eogresources.com>; Amber Griffin <Amber\_Griffin@eogresources.com>; BODEE EUDY <BODEE\_EUDY@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Tina,

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

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta < Tina\_Huerta@eogresources.com >

Sent: Wednesday, March 9, 2022 9:18 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us >

**Cc:** Artesia Regulatory < <u>Artesia Regulatory@eogresources.com</u>>; Chase Settle < <u>Chase Settle@eogresources.com</u>>; Yvette Moore < <u>Yvette Moore@eogresources.com</u>>; Katie Jamison < <u>Katie Jamison@eogresources.com</u>>; Amber Griffin@eogresources.com>; BODEE EUDY < <u>BODEE EUDY@eogresources.com</u>>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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Good morning,

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

Yates AS Fee Battery K-25-18S-25E Eddy County, NM nAPP2111230058

Sampling will begin at 10:00 a.m. on Monday, March 14, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com



**Artesia Division** 

**From:** Chase Settle < Chase\_Settle@eogresources.com>

**Sent:** Thursday, March 17, 2022 8:51 AM **To:** Becky Haskell; Zach Comino

**Cc:** Amber Griffin

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Thursday, March 17, 2022 7:46 AM

To: Tina Huerta <Tina\_Huerta@eogresources.com>

Cc: Artesia Regulatory < Artesia Regulatory@eogresources.com>; Amber Griffin

<Amber\_Griffin@eogresources.com>; Chase Settle <Chase\_Settle@eogresources.com>; Yvette Moore

<Yvette\_Moore@eogresources.com>; Katie Jamison <Katie\_Jamison@eogresources.com>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD

<Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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Tina,

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

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Wednesday, March 16, 2022 5:04 PM

To: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

**Cc:** Artesia Regulatory < Artesia Regulatory@eogresources.com>; Amber Griffin

<Amber Griffin@eogresources.com>; Chase Settle <Chase Settle@eogresources.com>; Yvette Moore

<<u>Yvette\_Moore@eogresources.com</u>>; Katie Jamison <<u>Katie\_Jamison@eogresources.com</u>>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Good afternoon,

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

Yates AS Fee Battery nAPP2111230058

Sampling will begin at 10:00 a.m. on Monday, March 21, 2022, and will be continuous through Thursday, March 24, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com



**Artesia Division** 

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>

Sent: Wednesday, March 23, 2022 4:40 PM

**To:** Becky Haskell; Zach Comino

**Cc:** Chase Settle

**Subject:** FW: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Wednesday, March 23, 2022 3:40 PM

To: Robert.Hamlet@state.nm.us

Cc: Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory

<a>Artesia\_Regulatory@eogresources.com></a>

Subject: Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Good afternoon,

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

Yates AS Fee Battery K-25-18S-25E Eddy County, NM nAPP2111230058

Sampling will begin at 8:00 a.m. on Wednesday, March 30, 2022.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

**eog resources** 

**Artesia Division** 

**From:** Amber Griffin < Amber\_Griffin@eogresources.com>

**Sent:** Thursday, April 21, 2022 3:39 PM **To:** Becky Haskell; Zach Comino

**Cc:** Chase Settle

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Thursday, April 21, 2022 2:38 PM

To: Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory

<a>Artesia\_Regulatory@eogresources.com></a>

Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

From: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Sent: Thursday, April 21, 2022 1:16 PM

To: Tina Huerta < Tina\_Huerta@eogresources.com >

Cc: Artesia Regulatory < <a href="mailto:Artesia Regulatory@eogresources.com">Artesia Regulatory@eogresources.com</a>; Bratcher, Mike, EMNRD < <a href="mailto:mike.bratcher@state.nm.us">Mike.bratcher@state.nm.us</a>; Nobui, Jennifer, EMNRD < <a href="mailto:Jennifer.Nobui@state.nm.us">Jennifer.Nobui@state.nm.us</a>> <a href="mailto:Subject">Subject</a>: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Tina,

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

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta < Tina Huerta@eogresources.com >

Sent: Thursday, April 21, 2022 8:25 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Cc: Artesia S&E Spill Remediation <Artesia S&E Spill Remediation@eogresources.com>; Artesia Regulatory

#### <a href="mailto:</a> <a href="mailto:Regulatory@eogresources.com">Regulatory@eogresources.com</a>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Good Morning,

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

Yates AS Fee Battery nAPP2111230058

Sampling will begin at 1:00 p.m. on Monday, April 25, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

**Artesia Division** 

**From:** Amber Griffin < Amber\_Griffin@eogresources.com>

**Sent:** Tuesday, May 3, 2022 10:51 AM **To:** Becky Haskell; Zach Comino

**Cc:** Chase Settle

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Tuesday, May 3, 2022 9:50 AM

To: Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory

<a>Artesia\_Regulatory@eogresources.com></a>

Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

From: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Sent: Tuesday, May 3, 2022 8:15 AM

To: Tina Huerta < Tina\_Huerta@eogresources.com >

Cc: Artesia Regulatory <a href="mailto:Artesia\_Regulatory@eogresources.com">Artesia\_Regulatory@eogresources.com</a>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD

<Jocelyn.Harimon@state.nm.us>

Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Tina,

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

Please, include the CC'd individuals on all future notifications.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta < Tina Huerta@eogresources.com>

Sent: Monday, May 2, 2022 2:03 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us >

**Cc:** Artesia Regulatory < <u>Artesia Regulatory@eogresources.com</u>>; Artesia S&E Spill Remediation

<a href="mailto:</a> <a href="mailto:Artesia S&E Spill Remediation@eogresources.com">Eogresources.com</a>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Good Afternoon,

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

Yates AS Fee Battery K-25-18S-25E; Eddy County, NM nAPP2111230058

Sampling will begin at 10:00 a.m. on Thursday, May 5, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

**Artesia Division** 

**From:** Amber Griffin < Amber\_Griffin@eogresources.com>

**Sent:** Thursday, May 5, 2022 10:41 AM **To:** Becky Haskell; Zach Comino

**Cc:** Chase Settle

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina Huerta@eogresources.com>

Sent: Thursday, May 5, 2022 9:41 AM

To: Artesia S&E Spill Remediation < Artesia\_S&E\_Spill\_Remediation@eogresources.com >

Cc: Artesia Regulatory < Artesia\_Regulatory@eogresources.com >

Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

fyi

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Thursday, May 5, 2022 9:24 AM

To: Tina Huerta < Tina\_Huerta@eogresources.com >

Cc: Artesia Regulatory <a href="mailto:Artesia\_Regulatory@eogresources.com">Artesia\_Regulatory@eogresources.com</a>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Harimon, Jocelyn, EMNRD

<<u>Jocelyn.Harimon@state.nm.us</u>>

Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Tina,

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

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Thursday, May 5, 2022 8:15 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

**Cc:** Artesia S&E Spill Remediation < <u>Artesia S&E Spill Remediation@eogresources.com</u>>; Artesia Regulatory < <u>Artesia Regulatory@eogresources.com</u>>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Good Morning,

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

Yates AS Fee Battery K-25-18S-25E; Eddy County, NM nAPP2111230058

Sampling will begin at 10:00 a.m. on Thursday, May 12, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

**Artesia Division** 

**From:** Chase Settle < Chase\_Settle@eogresources.com>

**Sent:** Thursday, May 12, 2022 4:44 PM **To:** Becky Haskell; Zach Comino

**Cc:** Amber Griffin

**Subject:** FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

From: Miriam Morales < Miriam\_Morales@eogresources.com >

Sent: Thursday, May 12, 2022 3:33 PM

To: Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>

Cc: Artesia Regulatory < Artesia Regulatory@eogresources.com>

Subject: FW: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

FYI

Miriam Morales

From: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Sent: Thursday, May 12, 2022 3:02 PM

To: Miriam Morales < Miriam Morales@eogresources.com >

Cc: Artesia Regulatory < Artesia Regulatory@eogresources.com >; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us</pre>

Subject: RE: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Miriam,

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

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Miriam Morales < Miriam Morales@eogresources.com >

Sent: Wednesday, May 11, 2022 3:45 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

**Cc:** Artesia S&E Spill Remediation < <u>Artesia S&E Spill Remediation@eogresources.com</u>>; Artesia Regulatory < <u>Artesia Regulatory@eogresources.com</u>>

Subject: [EXTERNAL] Yates AS Fee Battery (nAPP2111230058) Sampling Notification

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

Good afternoon,

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

Yates AS Fee Battery K-25-18S-25E; Eddy County, NM nAPP2111230058

Sampling will begin at 10:00 a.m. on Tuesday, May 17, 2022.

Thank you,

Miriam Morales

# Appendix D Laboratory Analytical Reports and Chain-ofCustody Documentation



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

OrderNo.: 2105949

May 28, 2021

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

FAX

RE: Yates As Fee Battery

Dear Tom Larson:

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

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** 

#### **Analytical Report**

Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

**Lab Order:** 2105949

**Project:** Yates As Fee Battery

**GHD** 

**Lab ID:** 2105949-001 **Collection Date:** 5/19/2021 7:50:00 AM

Client Sample ID: TP1-2 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Anal	yst: <b>VP</b>
Chloride	900	60		mg/Kg	20	5/24/2021 5:06:31 P	M 60211
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Anal	yst: <b>SB</b>
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	5/24/2021 8:16:16 P	M 60191
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	5/24/2021 8:16:16 P	M 60191
Surr: DNOP	139	70-130	S	%Rec	1	5/24/2021 8:16:16 P	M 60191
EPA METHOD 8015D: GASOLINE RANGE						Anal	yst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2021 2:58:23 P	M 60185
Surr: BFB	88.6	70-130		%Rec	1	5/24/2021 2:58:23 P	M 60185
EPA METHOD 8021B: VOLATILES						Anal	yst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/24/2021 2:58:23 P	M 60185
Toluene	ND	0.048		mg/Kg	1	5/24/2021 2:58:23 P	M 60185
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2021 2:58:23 P	M 60185
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2021 2:58:23 P	M 60185
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/24/2021 2:58:23 P	M 60185

**Lab ID:** 2105949-002 **Collection Date:** 5/19/2021 7:55:00 AM

Client Sample ID: TP1-4 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Anal	yst: <b>VP</b>
Chloride	1000	60		mg/Kg	20	5/25/2021 2:10:05 P	M 60237
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Anal	yst: <b>mb</b>
Diesel Range Organics (DRO)	720	200		mg/Kg	20	5/22/2021 12:45:18	PM 60191
Motor Oil Range Organics (MRO)	1700	980		mg/Kg	20	5/22/2021 12:45:18	PM 60191
Surr: DNOP	0	70-130	S	%Rec	20	5/22/2021 12:45:18	PM 60191
EPA METHOD 8015D: GASOLINE RANGE						Anal	yst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 4:32:36 P	M 60185
Surr: BFB	87.6	70-130		%Rec	1	5/24/2021 4:32:36 P	M 60185
<b>EPA METHOD 8021B: VOLATILES</b>						Anal	yst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/24/2021 4:32:36 P	M 60185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 4:32:36 P	M 60185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 4:32:36 P	M 60185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 4:32:36 P	M 60185
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	5/24/2021 4:32:36 P	M 60185

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 1 of 26

Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-003 **Collection Date:** 5/19/2021 8:00:00 AM

Client Sample ID: TP2-2 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1000 5/25/2021 2:22:29 PM 60 60237 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 5/25/2021 11:30:07 AM 60191 53 9.5 mg/Kg Motor Oil Range Organics (MRO) 330 47 5/25/2021 11:30:07 AM 60191 mg/Kg 1 Surr: DNOP 129 70-130 %Rec 5/25/2021 11:30:07 AM 60191 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 5/24/2021 4:56:11 PM 60185 Surr: BFB 88.1 70-130 %Rec 1 5/24/2021 4:56:11 PM 60185 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 5/24/2021 4:56:11 PM mg/Kg 60185 Toluene ND 0.049 mg/Kg 5/24/2021 4:56:11 PM 60185 Ethylbenzene ND 60185 0.049 mg/Kg 1 5/24/2021 4:56:11 PM Xylenes, Total ND 0.097 mg/Kg 5/24/2021 4:56:11 PM 60185 Surr: 4-Bromofluorobenzene 99.5 70-130 %Rec 5/24/2021 4:56:11 PM 60185

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 2 of 26

Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-004 **Collection Date:** 5/19/2021 8:10:00 AM

Client Sample ID: TP2-4 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	ı ID
EPA METHOD 300.0: ANIONS						Ana	lyst: <b>VF</b>	P
Chloride	220	60		mg/Kg	20	5/25/2021 2:34:53 F	PM 60	)237
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	lyst: SE	3
Diesel Range Organics (DRO)	290	86		mg/Kg	10	5/24/2021 7:36:20 F	PM 60	)191
Motor Oil Range Organics (MRO)	940	430		mg/Kg	10	5/24/2021 7:36:20 F	PM 60	)191
Surr: DNOP	0	70-130	S	%Rec	10	5/24/2021 7:36:20 F	PM 60	)191
EPA METHOD 8015D: GASOLINE RANGE						Ana	lyst: NS	SB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2021 5:19:41 F	PM 60	)185
Surr: BFB	87.9	70-130		%Rec	1	5/24/2021 5:19:41 F	PM 60	)185
EPA METHOD 8021B: VOLATILES						Ana	lyst: NS	SB
Benzene	ND	0.024		mg/Kg	1	5/24/2021 5:19:41 F	PM 60	)185
Toluene	ND	0.049		mg/Kg	1	5/24/2021 5:19:41 F	PM 60	)185
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2021 5:19:41 F	PM 60	)185
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2021 5:19:41 F	PM 60	)185
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	5/24/2021 5:19:41 F	PM 60	)185

**Lab ID:** 2105949-005 **Collection Date:** 5/19/2021 8:50:00 AM

Client Sample ID: TP3-11 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	1900	61	mg/Kg	20	5/25/2021 2:47:18 PM	60237
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/22/2021 1:15:21 PM	60191
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/22/2021 1:15:21 PM	60191
Surr: DNOP	87.4	70-130	%Rec	1	5/22/2021 1:15:21 PM	60191
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/24/2021 5:43:33 PM	60185
Surr: BFB	88.6	70-130	%Rec	1	5/24/2021 5:43:33 PM	60185
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	5/24/2021 5:43:33 PM	60185
Toluene	ND	0.046	mg/Kg	1	5/24/2021 5:43:33 PM	60185
Ethylbenzene	ND	0.046	mg/Kg	1	5/24/2021 5:43:33 PM	60185
Xylenes, Total	ND	0.092	mg/Kg	1	5/24/2021 5:43:33 PM	60185
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	5/24/2021 5:43:33 PM	60185

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 26

Lab Order: **2105949** 

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-006 **Collection Date:** 5/19/2021 8:55:00 AM

Client Sample ID: TP3-14 Matrix: SOIL

Chefft Sample ID: 11 3-14	Watrix: SOIL							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>		
Chloride	1300	60	mg/Kg	20	5/25/2021 10:13:52	PM 60253		
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	yst: <b>SB</b>		
Diesel Range Organics (DRO)	20	9.4	mg/Kg	1	5/24/2021 8:36:23 P	M 60191		
Motor Oil Range Organics (MRO)	57	47	mg/Kg	1	5/24/2021 8:36:23 P	M 60191		
Surr: DNOP	98.9	70-130	%Rec	1	5/24/2021 8:36:23 P	M 60191		
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2021 6:07:05 P	M 60185		
Surr: BFB	91.4	70-130	%Rec	1	5/24/2021 6:07:05 P	M 60185		
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>		
Benzene	ND	0.024	mg/Kg	1	5/24/2021 6:07:05 P	M 60185		
Toluene	ND	0.048	mg/Kg	1	5/24/2021 6:07:05 P	M 60185		
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2021 6:07:05 P	M 60185		
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2021 6:07:05 P	M 60185		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/24/2021 6:07:05 P	M 60185		

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 26

Lab Order: **2105949**Date Reported: **5/28/2021** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-007 **Collection Date:** 5/19/2021 9:00:00 AM

Client Sample ID: TP4-2 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	ND	60	mg/Kg	20	5/25/2021 10:26:16 P	M 60253
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analy	st: SB
Diesel Range Organics (DRO)	50	9.0	mg/Kg	1	5/24/2021 8:56:22 PM	1 60191
Motor Oil Range Organics (MRO)	180	45	mg/Kg	1	5/24/2021 8:56:22 PM	1 60191
Surr: DNOP	105	70-130	%Rec	1	5/24/2021 8:56:22 PM	1 60191
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2021 6:30:34 PM	1 60185
Surr: BFB	91.4	70-130	%Rec	1	5/24/2021 6:30:34 PM	1 60185
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2021 6:30:34 PM	1 60185
Toluene	ND	0.049	mg/Kg	1	5/24/2021 6:30:34 PM	1 60185
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2021 6:30:34 PM	1 60185
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2021 6:30:34 PM	1 60185
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/24/2021 6:30:34 PM	1 60185

**Lab ID:** 2105949-008 **Collection Date:** 5/19/2021 9:10:00 AM

Client Sample ID: TP5-4 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>	,
Chloride	620	60	mg/Kg	20	5/25/2021 11:03:30	PM 602	253
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	lyst: <b>mb</b>	)
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/22/2021 1:45:12	PM 601	191
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/22/2021 1:45:12	PM 601	191
Surr: DNOP	119	70-130	%Rec	1	5/22/2021 1:45:12	PM 601	191
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: <b>NS</b>	В
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2021 6:54:25 [	PM 601	185
Surr: BFB	92.0	70-130	%Rec	1	5/24/2021 6:54:25	PM 601	185
EPA METHOD 8021B: VOLATILES					Ana	lyst: <b>NS</b>	В
Benzene	ND	0.025	mg/Kg	1	5/24/2021 6:54:25 [	PM 601	185
Toluene	ND	0.050	mg/Kg	1	5/24/2021 6:54:25	PM 601	185
Ethylbenzene	ND	0.050	mg/Kg	1	5/24/2021 6:54:25	PM 601	185
Xylenes, Total	ND	0.10	mg/Kg	1	5/24/2021 6:54:25	PM 601	185
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/24/2021 6:54:25 I	PM 601	185

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

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Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-009 **Collection Date:** 5/19/2021 9:15:00 AM

Client Sample ID: TP5-6 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 5/25/2021 11:15:54 PM 60253 930 60 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 5/24/2021 7:56:15 PM 320 49 mg/Kg 5 60191 Motor Oil Range Organics (MRO) 760 240 5 5/24/2021 7:56:15 PM 60191 mg/Kg Surr: DNOP 108 70-130 %Rec 5 5/24/2021 7:56:15 PM 60191 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 7:18:01 PM 60185 Surr: BFB 90.3 70-130 %Rec 1 5/24/2021 7:18:01 PM 60185 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 5/24/2021 7:18:01 PM mg/Kg 60185 Toluene ND 0.048 mg/Kg 5/24/2021 7:18:01 PM 60185 Ethylbenzene ND 60185 0.048 mg/Kg 1 5/24/2021 7:18:01 PM Xylenes, Total ND 0.097 mg/Kg 5/24/2021 7:18:01 PM 60185 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 5/24/2021 7:18:01 PM 60185

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

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Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-010 **Collection Date:** 5/19/2021 9:30:00 AM

Client Sample ID: TP6-8 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	2200	60	mg/Kg	20	5/25/2021 11:28:18 PM	1 60253
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2021 2:05:17 PM	60191
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 2:05:17 PM	60191
Surr: DNOP	116	70-130	%Rec	1	5/22/2021 2:05:17 PM	60191
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2021 7:41:29 PM	60185
Surr: BFB	89.9	70-130	%Rec	1	5/24/2021 7:41:29 PM	60185
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2021 7:41:29 PM	60185
Toluene	ND	0.049	mg/Kg	1	5/24/2021 7:41:29 PM	60185
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2021 7:41:29 PM	60185
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2021 7:41:29 PM	60185
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/24/2021 7:41:29 PM	60185

**Lab ID:** 2105949-011 **Collection Date:** 5/19/2021 9:35:00 AM

Client Sample ID: TP6-10 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1500	60	mg/Kg	20	5/25/2021 11:40:42 PM	60253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/22/2021 2:15:43 PM	60191
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/22/2021 2:15:43 PM	60191
Surr: DNOP	100	70-130	%Rec	1	5/22/2021 2:15:43 PM	60191
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2021 8:04:55 PM	60185
Surr: BFB	92.0	70-130	%Rec	1	5/24/2021 8:04:55 PM	60185
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2021 8:04:55 PM	60185
Toluene	ND	0.048	mg/Kg	1	5/24/2021 8:04:55 PM	60185
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2021 8:04:55 PM	60185
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2021 8:04:55 PM	60185
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/24/2021 8:04:55 PM	60185

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-012 **Collection Date:** 5/19/2021 9:45:00 AM

Client Sample ID: TP7-2 Matrix: SOIL

Chefit Sample ID: 117-2	Matrix: SOIL							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>		
Chloride	450	60	mg/Kg	20	5/25/2021 11:53:06	PM 60253		
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	lyst: <b>mb</b>		
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/22/2021 2:26:11 F	PM 60191		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/22/2021 2:26:11 F	PM 60191		
Surr: DNOP	127	70-130	%Rec	1	5/22/2021 2:26:11 F	PM 60191		
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: <b>NSB</b>		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2021 9:15:51 F	PM 60185		
Surr: BFB	89.6	70-130	%Rec	1	5/24/2021 9:15:51 F	PM 60185		
EPA METHOD 8021B: VOLATILES					Ana	lyst: <b>NSB</b>		
Benzene	ND	0.024	mg/Kg	1	5/24/2021 9:15:51 F	PM 60185		
Toluene	ND	0.049	mg/Kg	1	5/24/2021 9:15:51 F	PM 60185		
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2021 9:15:51 F	PM 60185		
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2021 9:15:51 F	PM 60185		
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	5/24/2021 9:15:51 F	PM 60185		
Xylenes, Total	ND	0.097	mg/Kg		5/24/2021 9:15:51 F	PM 60185		

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: **2105949**Date Reported: **5/28/2021** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-013 **Collection Date:** 5/19/2021 9:50:00 AM

Client Sample ID: TP7-4 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	380	60	mg/Kg	20	5/26/2021 8:38:48 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/22/2021 2:36:44 PM	60191
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 2:36:44 PM	60191
Surr: DNOP	123	70-130	%Rec	1	5/22/2021 2:36:44 PM	60191
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2021 9:39:30 PM	60185
Surr: BFB	89.7	70-130	%Rec	1	5/24/2021 9:39:30 PM	60185
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2021 9:39:30 PM	60185
Toluene	ND	0.049	mg/Kg	1	5/24/2021 9:39:30 PM	60185
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2021 9:39:30 PM	60185
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2021 9:39:30 PM	60185
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/24/2021 9:39:30 PM	60185

**Lab ID:** 2105949-014 **Collection Date:** 5/19/2021 9:55:00 AM

Client Sample ID: TP8-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	tch ID
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	1100	60	mg/Kg	20	5/26/2021 8:51:13 AM	60262
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/22/2021 2:47:18 PM	60191
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/22/2021 2:47:18 PM	60191
Surr: DNOP	114	70-130	%Rec	1	5/22/2021 2:47:18 PM	60191
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2021 10:03:09 PM	60185
Surr: BFB	87.2	70-130	%Rec	1	5/24/2021 10:03:09 PM	60185
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2021 10:03:09 PM	60185
Toluene	ND	0.049	mg/Kg	1	5/24/2021 10:03:09 PM	60185
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2021 10:03:09 PM	60185
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2021 10:03:09 PM	60185
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	5/24/2021 10:03:09 PM	60185

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

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Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-015 **Collection Date:** 5/19/2021 10:00:00 AM

Client Sample ID: TP8-4 Matrix: SOIL

Cheft Sample ID: 178-4		Matrix: SOIL						
Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>		
Chloride	670	61	mg/Kg	20	5/26/2021 9:28:26 A	M 60262		
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	yst: <b>mb</b>		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/22/2021 3:28:03 P	M 60192		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/22/2021 3:28:03 P	M 60192		
Surr: DNOP	95.4	70-130	%Rec	1	5/22/2021 3:28:03 P	M 60192		
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/25/2021 4:18:13 P	M 60188		
Surr: BFB	91.2	70-130	%Rec	1	5/25/2021 4:18:13 P	M 60188		
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>		
Benzene	ND	0.025	mg/Kg	1	5/25/2021 4:18:13 P	M 60188		
Toluene	ND	0.050	mg/Kg	1	5/25/2021 4:18:13 P	M 60188		
Ethylbenzene	ND	0.050	mg/Kg	1	5/25/2021 4:18:13 P	M 60188		
Xylenes, Total	ND	0.10	mg/Kg	1	5/25/2021 4:18:13 P	M 60188		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/25/2021 4:18:13 P	M 60188		

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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

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**CLIENT:** 

#### **Analytical Report**

Lab Order: **2105949**Date Reported: **5/28/2021** 

# Hall Environmental Analysis Laboratory, Inc.

**Lab Order:** 2105949

**Project:** Yates As Fee Battery

**GHD** 

**Lab ID:** 2105949-016 **Collection Date:** 5/19/2021 10:05:00 AM

Client Sample ID: TP9-2 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	460	60	mg/Kg	20	5/26/2021 10:05:39 AM	1 60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2021 3:58:23 PM	60192
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 3:58:23 PM	60192
Surr: DNOP	87.4	70-130	%Rec	1	5/22/2021 3:58:23 PM	60192
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/25/2021 5:28:39 PM	60188
Surr: BFB	89.8	70-130	%Rec	1	5/25/2021 5:28:39 PM	60188
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	5/25/2021 5:28:39 PM	60188
Toluene	ND	0.049	mg/Kg	1	5/25/2021 5:28:39 PM	60188
Ethylbenzene	ND	0.049	mg/Kg	1	5/25/2021 5:28:39 PM	60188
Xylenes, Total	ND	0.098	mg/Kg	1	5/25/2021 5:28:39 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/25/2021 5:28:39 PM	60188

**Lab ID:** 2105949-017 **Collection Date:** 5/19/2021 10:40:00 AM

Client Sample ID: TP10-8 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>V</b> I	Р
Chloride	1300	60	mg/Kg	20	5/26/2021 10:42:52	AM 60	0262
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	lyst: <b>m</b>	ıb
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	5/22/2021 4:08:26 I	PM 60	0192
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	5/22/2021 4:08:26 I	PM 60	0192
Surr: DNOP	101	70-130	%Rec	1	5/22/2021 4:08:26 I	PM 60	0192
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: N	SB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/25/2021 6:39:29	PM 60	0188
Surr: BFB	91.9	70-130	%Rec	1	5/25/2021 6:39:29 I	PM 60	0188
EPA METHOD 8021B: VOLATILES					Ana	lyst: N	SB
Benzene	ND	0.024	mg/Kg	1	5/25/2021 6:39:29	PM 60	0188
Toluene	ND	0.049	mg/Kg	1	5/25/2021 6:39:29 I	PM 60	0188
Ethylbenzene	ND	0.049	mg/Kg	1	5/25/2021 6:39:29 I	PM 60	0188
Xylenes, Total	ND	0.098	mg/Kg	1	5/25/2021 6:39:29 I	PM 60	0188
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/25/2021 6:39:29 I	PM 60	0188

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

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Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-018 **Collection Date:** 5/19/2021 10:45:00 AM

Client Sample ID: TP10-10 Matrix: SOIL

Chent Sample ID: 1710-10		Matrix: SOIL						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID		
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>		
Chloride	620	60	mg/Kg	20	5/26/2021 10:55:17	AM 60262		
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	yst: <b>mb</b>		
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	5/22/2021 4:18:28 P	M 60192		
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/22/2021 4:18:28 P	M 60192		
Surr: DNOP	97.7	70-130	%Rec	1	5/22/2021 4:18:28 P	M 60192		
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/25/2021 7:02:56 P	M 60188		
Surr: BFB	91.3	70-130	%Rec	1	5/25/2021 7:02:56 P	M 60188		
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>		
Benzene	ND	0.024	mg/Kg	1	5/25/2021 7:02:56 P	M 60188		
Toluene	ND	0.048	mg/Kg	1	5/25/2021 7:02:56 P	M 60188		
Ethylbenzene	ND	0.048	mg/Kg	1	5/25/2021 7:02:56 P	M 60188		
Xylenes, Total	ND	0.096	mg/Kg	1	5/25/2021 7:02:56 P	M 60188		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/25/2021 7:02:56 P	M 60188		

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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**CLIENT:** 

#### **Analytical Report**

Lab Order: 2105949 Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2105949

**GHD Project:** Yates As Fee Battery

Lab ID: 2105949-019 Collection Date: 5/19/2021 10:50:00 AM

Matrix: SOIL Client Sample ID: TP11-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analy	st: <b>VP</b>
Chloride	620	60		mg/Kg	20	5/26/2021 11:07:41 A	M 60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analy	st: <b>mb</b>
Diesel Range Organics (DRO)	720	91		mg/Kg	10	5/22/2021 4:28:29 PM	1 60192
Motor Oil Range Organics (MRO)	650	450		mg/Kg	10	5/22/2021 4:28:29 PM	60192
Surr: DNOP	0	70-130	S	%Rec	10	5/22/2021 4:28:29 PM	1 60192
EPA METHOD 8015D: GASOLINE RANGE						Analy	st: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Surr: BFB	92.2	70-130	D	%Rec	5	5/25/2021 7:26:29 PM	1 60188
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/25/2021 7:26:29 PM	1 60188
Toluene	ND	0.25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/25/2021 7:26:29 PM	60188
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/25/2021 7:26:29 PM	1 60188
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	5/25/2021 7:26:29 PM	1 60188

Lab ID: 2105949-020 **Collection Date:** 5/19/2021 10:55:00 AM

Client Sample ID: TP11-4 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	870	60	mg/Kg	20	5/26/2021 11:20:06 AM	A 60262
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/22/2021 4:38:28 PM	60192
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 4:38:28 PM	60192
Surr: DNOP	93.5	70-130	%Rec	1	5/22/2021 4:38:28 PM	60192
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/25/2021 7:50:02 PM	60188
Surr: BFB	91.7	70-130	%Rec	1	5/25/2021 7:50:02 PM	60188
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/25/2021 7:50:02 PM	60188
Toluene	ND	0.048	mg/Kg	1	5/25/2021 7:50:02 PM	60188
Ethylbenzene	ND	0.048	mg/Kg	1	5/25/2021 7:50:02 PM	60188
Xylenes, Total	ND	0.096	mg/Kg	1	5/25/2021 7:50:02 PM	60188
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/25/2021 7:50:02 PM	60188

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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

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Lab Order: **2105949** 

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-021 **Collection Date:** 5/19/2021 11:30:00 AM

Client Sample ID: TP12-13 Matrix: SOIL

Chefit Sample 1D. 11 12-13	Wattix, SOIL					
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					An	alyst: <b>VP</b>
Chloride	5400	300	mg/Kg	100	5/26/2021 9:03:09	PM 60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				An	alyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2021 4:48:27	PM 60192
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 4:48:27	PM 60192
Surr: DNOP	99.9	70-130	%Rec	1	5/22/2021 4:48:27	PM 60192
EPA METHOD 8015D: GASOLINE RANGE					An	alyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/25/2021 8:13:46	PM 60188
Surr: BFB	91.5	70-130	%Rec	1	5/25/2021 8:13:46	PM 60188
EPA METHOD 8021B: VOLATILES					An	alyst: <b>NSB</b>
Benzene	ND	0.025	mg/Kg	1	5/25/2021 8:13:46	PM 60188
Toluene	ND	0.049	mg/Kg	1	5/25/2021 8:13:46	PM 60188
Ethylbenzene	ND	0.049	mg/Kg	1	5/25/2021 8:13:46	PM 60188
Xylenes, Total	ND	0.099	mg/Kg	1	5/25/2021 8:13:46	PM 60188
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/25/2021 8:13:46	PM 60188

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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

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Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-022 **Collection Date:** 5/19/2021 11:35:00 AM

Client Sample ID: TP13-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: <b>VP</b>
Chloride	110	60	mg/Kg	20	5/26/2021 11:44:55 AM	1 60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/22/2021 4:58:24 PM	60192
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/22/2021 4:58:24 PM	60192
Surr: DNOP	84.8	70-130	%Rec	1	5/22/2021 4:58:24 PM	60192
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/25/2021 9:47:24 PM	60188
Surr: BFB	89.8	70-130	%Rec	1	5/25/2021 9:47:24 PM	60188
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	5/25/2021 9:47:24 PM	60188
Toluene	ND	0.046	mg/Kg	1	5/25/2021 9:47:24 PM	60188
Ethylbenzene	ND	0.046	mg/Kg	1	5/25/2021 9:47:24 PM	60188
Xylenes, Total	ND	0.092	mg/Kg	1	5/25/2021 9:47:24 PM	60188
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/25/2021 9:47:24 PM	60188

**Lab ID:** 2105949-023 **Collection Date:** 5/19/2021 11:55:00 AM

Client Sample ID: TP14-13 Matrix: SOIL

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Anal	yst: <b>VP</b>
Chloride	3500	150	mg/Kg	50	5/26/2021 9:15:34 P	M 60262
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Anal	yst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2021 5:08:18 P	M 60192
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2021 5:08:18 P	M 60192
Surr: DNOP	102	70-130	%Rec	1	5/22/2021 5:08:18 P	M 60192
EPA METHOD 8015D: GASOLINE RANGE					Anal	yst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/25/2021 10:10:48	PM 60188
Surr: BFB	90.1	70-130	%Rec	1	5/25/2021 10:10:48	PM 60188
EPA METHOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>
Benzene	ND	0.025	mg/Kg	1	5/25/2021 10:10:48	PM 60188
Toluene	ND	0.050	mg/Kg	1	5/25/2021 10:10:48	PM 60188
Ethylbenzene	ND	0.050	mg/Kg	1	5/25/2021 10:10:48	PM 60188
Xylenes, Total	ND	0.10	mg/Kg	1	5/25/2021 10:10:48	PM 60188
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/25/2021 10:10:48	PM 60188

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

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Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-024 **Collection Date:** 5/19/2021 12:00:00 PM

Client Sample ID: TP15-2 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 5/26/2021 12:09:43 PM 60262 60 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 5/22/2021 5:18:12 PM ND 9.8 mg/Kg 60192 Motor Oil Range Organics (MRO) ND 5/22/2021 5:18:12 PM 60192 49 mg/Kg 1 Surr: DNOP 76.1 70-130 %Rec 5/22/2021 5:18:12 PM 60192 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/25/2021 10:34:09 PM 60188 5/25/2021 10:34:09 PM 60188 Surr: BFB 92.4 70-130 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 5/25/2021 10:34:09 PM 60188 mg/Kg Toluene ND 0.048 mg/Kg 1 5/25/2021 10:34:09 PM 60188 Ethylbenzene ND 0.048 mg/Kg 1 5/25/2021 10:34:09 PM 60188 Xylenes, Total ND 0.096 mg/Kg 5/25/2021 10:34:09 PM 60188 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 5/25/2021 10:34:09 PM 60188

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

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Lab Order: 2105949

Date Reported: 5/28/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-025 **Collection Date:** 5/19/2021 12:30:00 PM

Client Sample ID: TP16-10 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300.0: ANIONS					Ana	alyst:	VP
Chloride	4500	150	mg/Kg	50	5/26/2021 9:27:58	PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	alyst:	mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/22/2021 5:28:04	PM	60192
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/22/2021 5:28:04	PM	60192
Surr: DNOP	104	70-130	%Rec	1	5/22/2021 5:28:04	PM	60192
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/25/2021 10:57:36	B PM	60188
Surr: BFB	90.3	70-130	%Rec	1	5/25/2021 10:57:36	B PM	60188
EPA METHOD 8021B: VOLATILES					Ana	alyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/25/2021 10:57:36	PM	60188
Toluene	ND	0.050	mg/Kg	1	5/25/2021 10:57:36	8 PM	60188
Ethylbenzene	ND	0.050	mg/Kg	1	5/25/2021 10:57:36	B PM	60188
Xylenes, Total	ND	0.099	mg/Kg	1	5/25/2021 10:57:36	B PM	60188
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/25/2021 10:57:36	B PM	60188

**Lab ID:** 2105949-026 **Collection Date:** 5/19/2021 12:35:00 PM

Client Sample ID: TP16-13 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: <b>VP</b>
Chloride	4700	150	mg/Kg	50	5/26/2021 9:40:22 PM	60262
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/22/2021 5:37:58 PM	60192
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/22/2021 5:37:58 PM	60192
Surr: DNOP	103	70-130	%Rec	1	5/22/2021 5:37:58 PM	60192
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/25/2021 11:21:15 PI	M 60188
Surr: BFB	91.3	70-130	%Rec	1	5/25/2021 11:21:15 PI	M 60188
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	5/25/2021 11:21:15 PI	И 60188
Toluene	ND	0.047	mg/Kg	1	5/25/2021 11:21:15 PI	√ 60188
Ethylbenzene	ND	0.047	mg/Kg	1	5/25/2021 11:21:15 PI	√ 60188
Xylenes, Total	ND	0.094	mg/Kg	1	5/25/2021 11:21:15 PI	√ 60188
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/25/2021 11:21:15 PI	M 60188

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

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Lab Order: 2105949

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2021

CLIENT: GHD Lab Order: 2105949

**Project:** Yates As Fee Battery

**Lab ID:** 2105949-027 **Collection Date:** 5/19/2021 12:45:00 PM

Client Sample ID: TP17-2 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 5/26/2021 1:11:44 PM 580 60 60262 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 5/22/2021 5:47:52 PM ND 10 mg/Kg 60192 Motor Oil Range Organics (MRO) ND 50 5/22/2021 5:47:52 PM 60192 mg/Kg 1 Surr: DNOP 90.7 70-130 %Rec 5/22/2021 5:47:52 PM 60192 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 5/25/2021 11:44:57 PM 60188 Surr: BFB 88.8 70-130 %Rec 1 5/25/2021 11:44:57 PM 60188 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/25/2021 11:44:57 PM 60188 Toluene ND 0.046 mg/Kg 1 5/25/2021 11:44:57 PM 60188 Ethylbenzene ND 0.046 mg/Kg 1 5/25/2021 11:44:57 PM 60188 Xylenes, Total ND 0.092 mg/Kg 5/25/2021 11:44:57 PM 60188 Surr: 4-Bromofluorobenzene 98.0 70-130 %Rec 5/25/2021 11:44:57 PM 60188

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

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#### **OC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2105949

28-May-21

**Client: GHD** 

**Project:** Yates As Fee Battery

Sample ID: MB-60211 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60211 RunNo: 77619

Prep Date: 5/24/2021 Analysis Date: 5/24/2021 SeqNo: 2755203 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-60211 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60211 RunNo: 77619

Prep Date: 5/24/2021 Analysis Date: 5/24/2021 SeqNo: 2755204 Units: mg/Kg

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

Chloride 1.5 15.00 93.7 110

Sample ID: MB-60237 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60237 RunNo: 77623

Prep Date: 5/25/2021 Analysis Date: 5/25/2021 SeqNo: 2756623 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-60237 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60237 RunNo: 77623

Analysis Date: 5/25/2021 Prep Date: 5/25/2021 SeqNo: 2756624 Units: mg/Kg

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

Chloride 14 1.5 15.00 916 90 110

Sample ID: MB-60253 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60253 RunNo: 77623

Prep Date: 5/25/2021 Analysis Date: 5/25/2021 SeqNo: 2756664 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60253 TestCode: EPA Method 300.0: Anions SampType: LCS

Client ID: LCSS Batch ID: 60253 RunNo: 77623

Prep Date: 5/25/2021 Analysis Date: 5/25/2021 SeqNo: 2756665 Units: mg/Kg

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

14 1.5 94.2 Chloride 15.00 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 19 of 26

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105949** 

28-May-21

Client: GHD

**Project:** Yates As Fee Battery

Sample ID: MB-60262 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60262 RunNo: 77685

Prep Date: 5/26/2021 Analysis Date: 5/26/2021 SeqNo: 2757775 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60262 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60262 RunNo: 77685

Prep Date: 5/26/2021 Analysis Date: 5/26/2021 SeqNo: 2757776 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105949 28-May-21** 

Client: GHD

**Project:** Yates As Fee Battery

Project: Yates A	s Fee Battery						
Sample ID: MB-60191	SampType	: MBLK	Tes	tCode: EPA Method	l 8015M/D: Diesel F	Range Organics	
Client ID: PBS	Batch ID:	: 60191	F	RunNo: <b>77590</b>			
Prep Date: <b>5/21/2021</b>	Analysis Date:	5/22/2021	8	SeqNo: <b>2753997</b>	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %F	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					
Motor Oil Range Organics (MRO)	ND	50					
Surr: DNOP	13	10.00		128 70	130		
Sample ID: <b>MB-60192</b>	SampType	: MBLK	Tes	tCode: <b>EPA Metho</b> c	l 8015M/D: Diesel F	lange Organics	
Client ID: PBS	Batch ID:	60192	F	RunNo: <b>77590</b>			
Prep Date: <b>5/21/2021</b>	Analysis Date:	5/22/2021	8	SeqNo: <b>2753998</b>	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %F	PD RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					
Motor Oil Range Organics (MRO)	ND	50					
Surr: DNOP	9.2	10.00		92.2 70	130		
Sample ID: LCS-60191	SampType	: LCS	Tes	tCode: EPA Method	l 8015M/D: Diesel F	Range Organics	
Client ID: LCSS	Batch ID:	60191	F	RunNo: <b>77590</b>			
Prep Date: 5/21/2021	Analysis Date:	5/22/2021	8	SeqNo: <b>2754004</b>	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %F	PD RPDLimit	Qual
Diesel Range Organics (DRO)	64	10 50.00	0	127 68.9	141		
Surr: DNOP	7.2	5.000		145 70	130		S
Sample ID: LCS-60192	SampType	: LCS	Tes	tCode: <b>EPA Methoc</b>	l 8015M/D: Diesel F	Range Organics	
Client ID: LCSS	Batch ID:	60192	F	RunNo: <b>77590</b>			
Prep Date: 5/21/2021	Analysis Date:	5/22/2021	8	SeqNo: <b>2754005</b>	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %F	RPD RPDLimit	Qual
Diesel Range Organics (DRO)	46	10 50.00	0	91.4 68.9	141		
Surr: DNOP	4.3	5.000		86.9 70	130		
Sample ID: <b>2105949-015AM</b> \$	SampType	: MS	Tes	tCode: <b>EPA Methoc</b>	8015M/D: Diesel F	Range Organics	
Client ID: TP8-4	Batch ID:	: 60192	F	RunNo: <b>77590</b>			
Prep Date: 5/21/2021	Analysis Date:	5/22/2021	8	SeqNo: <b>2754009</b>	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %F	PD RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.9 49.36	0	82.2 15	184		
Surr: DNOP	4.0	4.936		80.4 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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105949** 

Qual

28-May-21

Client: GHD

**Project:** Yates As Fee Battery

Sample ID: 2105949-015AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **TP8-4** Batch ID: **60192** RunNo: **77590** 

Prep Date: 5/21/2021 Analysis Date: 5/22/2021 SeqNo: 2754012 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
Diesel Range Organics (DRO)	42	9.4	46.99	0	89.7	15	184	3.74	23.9	
Surr: DNOP	4.2		4.699		90.4	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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2105949 28-May-21

**Client: GHD** 

Sample ID: Ics-60213

**Project:** Yates As Fee Battery

Sample ID: mb-60185 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 60185 RunNo: 77617

Analysis Date: 5/24/2021 SeqNo: 2755051 Prep Date: 5/21/2021 Units: mq/Kq

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

Gasoline Range Organics (GRO) NΩ 5.0

Surr: BFB 910 1000 91.2 70 130

Sample ID: Ics-60185 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60185 RunNo: 77617

Prep Date: 5/21/2021 Analysis Date: 5/24/2021 SeqNo: 2755052 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 95.4 78.6 131 Surr: BFB 1000 1000 100 70 130

Sample ID: mb-60213 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 60213 RunNo: 77631

Prep Date: 5/24/2021 Analysis Date: 5/25/2021 SeqNo: 2756716 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Surr: BFB 900 1000 90.4 70 130

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60213 RunNo: 77631

SampType: LCS

Prep Date: 5/24/2021 Analysis Date: 5/25/2021 SeqNo: 2756717 Units: %Rec

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

1000 1000 70 Surr: BFB 102 130

Sample ID: mb-60188 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PRS Batch ID: 60188 RunNo: 77631

Batch ID: 60188

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756720 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 89.0 70 130

Sample ID: Ics-60188 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756721 Units: mg/Kg

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

Gasoline Range Organics (GRO) 23 5.0 25.00 0 92.6 78.6 131 Surr: BFB 1000 1000 101 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

RunNo: 77631

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 23 of 26

### Hall Environmental Analysis Laboratory, Inc.

970

WO#: **2105949 28-May-21** 

Client: GHD

Surr: BFB

**Project:** Yates As Fee Battery

Sample ID: 2105949-015ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **TP8-4** Batch ID: **60188** RunNo: **77631** 

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756723 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result 0 Gasoline Range Organics (GRO) 22 4.9 24.27 92.2 61.3 114

99.8

130

Sample ID: 2105949-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

970.9

Client ID: **TP8-4** Batch ID: **60188** RunNo: **77631** 

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756724 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 24.93 0 92.7 61.3 114 3.18 20 Surr: BFB 990 997.0 99.4 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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2105949 28-May-21

**Client: GHD** 

**Project:** Yates As Fee Battery

Sample ID: mb-60185	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: <b>60</b>	185	R	RunNo: <b>7</b>	7617				
Prep Date: 5/21/2021	Analysis D	ate: <b>5/</b>	24/2021	S	SeqNo: 2	755095	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	·		HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: LCS-60185	Samp	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: <b>60</b>	185	F	RunNo: <b>7</b>	7617				
Prep Date: 5/21/2021	Analysis [	Date: <b>5/</b>	ate: 5/24/2021 SeqNo: 2755096		755096	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-60213	SampType:	MBLK	Tes	tCode: <b>El</b>	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID:	60213	F	RunNo: <b>7</b>	7631				
Prep Date: 5/24/2021	Analysis Date:	5/25/2021	S	SeqNo: 2	756760	Units: %Red	;		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		102	70	130			

Sample ID: LCS-60213	SampTy	pe: <b>LC</b>	S	Test	tCode: <b>EF</b>	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: <b>60</b> 2	213	R	RunNo: 7	7631				
Prep Date: 5/24/2021	Analysis Da	ite: <b>5/</b>	25/2021	S	SeqNo: 27	756761	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	•	1.000	•	102	70	130		•	

Sample ID: mb-60188	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: <b>60</b>	188	F	RunNo: <b>7</b>	7631				
Prep Date: 5/21/2021	Analysis D	Date: <b>5/</b>	25/2021	8	SeqNo: 2	756764	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								

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2105949

28-May-21

**Client:** GHD

Surr: 4-Bromofluorobenzene

**Project:** Yates As Fee Battery

Sample ID: mb-60188 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 60188 RunNo: 77631

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756764 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual Surr: 4-Bromofluorobenzene 1.0 1.000 99.6 70 130

Sample ID: LCS-60188 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 60188 RunNo: 77631

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756765

Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene 0.89 0.025 1.000 0 89.0 80 120 Toluene 0.93 0.050 1.000 0 92.6 80 120 0.92 0.050 0 80 120 Ethylbenzene 1.000 92 1 Xylenes, Total 2.8 0.10 3.000 0 93.0 80 120

102

70

130

Sample ID: 2105949-016ams TestCode: EPA Method 8021B: Volatiles SampType: MS

1.000

Client ID: TP9-2 RunNo: 77631 Batch ID: 60188

10

Prep Date: 5/21/2021 Analysis Date: 5/25/2021 SeqNo: 2756768 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Result PQL LowLimit HighLimit %RPD Qual Analyte 0.88 0.024 0.9515 0 92.2 76.3 120 Renzene Toluene 0.93 0.048 0.9515 0 97.7 78.5 120 0.92 0.048 0 97.0 78.1 124 Ethylbenzene 0.9515 Xylenes, Total 2.8 0.095 2.854 0 98.3 79.3 125 0.9515 Surr: 4-Bromofluorobenzene 0.97 102 70 130

Sample ID: 2105949-016amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: TP9-2 Batch ID: 60188 RunNo: 77631

Prep Date: 5/21/2021	Analysis [	Date: <b>5/</b>	25/2021	8	SeqNo: 2	756769	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9560	0	92.0	80	120	0.292	20	
Toluene	0.93	0.048	0.9560	0	97.6	80	120	0.344	20	
Ethylbenzene	0.94	0.048	0.9560	0	98.3	80	120	1.77	20	
Xylenes, Total	2.8	0.096	2.868	0	99.0	80	120	1.17	20	
Surr: 4-Bromofluorobenzene	0.98		0.9560		102	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

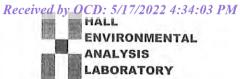
Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 26 of 26



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: GHD	Work Order Number:	210	5949			RcptNo:	1
Received By: Juan Rojas	5/21/2021 7:30:00 AM			Lean	30		
Completed By: Cheyenne Cason	5/21/2021 8:24:50 AM			16.	1		
Reviewed By: SPA 5-21-21				Chesic			
Chain of Custody							
1. Is Chain of Custody complete?		Yes	~	No		Not Present	
2. How was the sample delivered?		Cou	rier				
Log In							
3. Was an attempt made to cool the samples?		Yes	~	No		NA 🗆	
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes	<b>V</b>	No		NA 🗆	
5. Sample(s) in proper container(s)?		Yes	<b>V</b>	No			
6. Sufficient sample volume for indicated test(s)	?	Yes	<b>V</b>	No			
7. Are samples (except VOA and ONG) properly	preserved?	Yes	<b>V</b>	No			
8. Was preservative added to bottles?		Yes		No	<b>V</b>	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No		NA 🗸	
(). Were any sample containers received broken	?	Yes		No	<b>V</b>	# of preserved	10
1.0						bottles checked	5-21-2
Does paperwork match bottle labels?     (Note discrepancies on chain of custody)		Yes	<b>V</b>	No		for pH: (<2 or>	12 unless noted)
2. Are matrices correctly identified on Chain of C	ustody?	Yes	<b>V</b>	No		Adjusted?	
3. Is it clear what analyses were requested?		Yes	V	No			
Were all holding times able to be met?     (If no, notify customer for authorization.)		Yes	<b>V</b>	No		Checked by:	
pecial Handling (if applicable)							
15. Was client notified of all discrepancies with th	is order?	Yes		No		NA 🔽	
Person Notified:	Date:	_	-		_		
By Whom:	Via:	eM:	ail 🗍	Phone	Fax	In Person	
Regarding:							
Client Instructions:		-			-		
6. Additional remarks:							
17. Cooler Information Cooler No Temp °C Condition Sea	al Intact Seal No Se	eal D	ate	Signed E	Зу		

5 3	MALL ENVIRONMENTAL PROPAGO AND ANALYSTS I ARODATODY OF THE PROPATOR OF THE PROPATOR OF THE PROPATOR OF THE PROPAGO AND THE PRO	llanvironmental com	37109	5 Fax 505-345-4107	Analysis Request	Gas only)	) H9T - (1.8 (1.4) (1.40) (1.50) (20) (20) (20) (1.60) (1.60)	(GR des // // // // // // // // // // // // //	BTEX + MTE BTEX + MTE BTEX + MTE TPH (Metho PAH's (8310 PAH's (831	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	3	<i>h</i>	<i>S</i>			8	29	GG 010			Time Remarks: Please cancel to Zech compressibilition	Time Asia Color Color Asia color	121 7:30 Direct bill to 506 chese SAII
Turn-Around Time:	Candard   Rush		Khes AS he Bather	Project #:	(172,840)	Project I	Sampler: Zeck	Temperature: 62.	Container Preservative HEAL No. Type and #	Jew BI	(0)	83	604	000	900	200	800	. 000	2	Oli	7	Received by: Date	Received by: Date	My courier stails
Chain-of-Custody Record	Client		Mailing Address:	3244) Maile St. Suite 108 Arteste. NA 88210	(505)377-	email or Fax#: [3c.k., HeskMC G-1D.com QA/QC Package: Chec_Settle Conversatives .com Standard Town, Love (Check Settle Conversation)	n Othe	□ EDD (Type)	Date Time Matrix Sample Request ID	05they 0780 S TP1-2	1-15T 1 721-4	CB00 TP9.2	CB10 TP2-4	C8-50 TP3-11	(855   TP3-14	2-4-2	7-187-4	09.5	Orso 176-8	1 0935   TP6-10			Date: Time: Relinquished by:	5/20/21 19W Column

	RONMENTAL PROPERTY OF THE PROP	S S S S S S S S S S S S S S S S S S S	37109			005 (	37121	7 70^	AOV) 80828-im98) 0728	) Q									~		>	ich.commodechD.com	Se 82 of 1
2 of 3	HALL ENVI	www. hallonvironmental com	4901 Hawkins NE - Albuquera	10	Analysis	Gas only) O / MRO≱	) H9T - (1.8 (1.4) (1.4) S 07S8	(GR (GR (GR (GR (GR (GR (GR	BTEX + MTI BTEX + MTI TPH (Metho EDB (Metho PAH's (8310 RCRA 8 Me Anions (F,Cl	۶											<b>→</b>	Remarks: Please enrall to 2	roomer steller 7-30 Direct Will to EDG Chase S
	□ Rush S Jaj	6	C. B. Mary	0	10	Heskell	Cevil by	0.3-0.2-0.1	tive HEAL No.	73	614	015	016	017	CISOF	019	020	021	022	023	0	Pate Time Re	1 05-4 19/12/2 vivoa
Turn-Around Time:	Standard	Project Name:	Lettes AS	Project #:	11228401	Project Manage	Sampler:	Temper	Container Preserva Type and # Type	Ten											>	Received by:	of the
Chain-of-Custody Record				Swith 108 Artest NIM & 210	77-4218	Chese Softh Captouresc Ton. Lunge Level 4 (Full Validation)			Sample Request ID	P-19T	TP8-2	T-86-4	7-604	TP10-8	TP10-10	7-11-2	4-1191	77-12-13	TP13-2	TP14-13	TPIS-2	d by:	1900 almuis
	Client: SMD		Mailing Address:	324WALLST.		email or Fax#: [3. k. ]  QA/QC Package: Chase.	_	□ EDD (Type)	Date Time Matrix	05-1920 S	1 0955 1	1000	leos	1040	1045	050	1655-	1130	1135	11555	1200	Date: Time: Relinquished by:    Control   Time: Relinquished by:   Control   Time: Relinquished by:   Control   Time: Relinquished by:   Control   Time: Relinquished by:   Control   Time:   Co	1

Chain-of-	Chain-of-Custody Record	Turn-Around Time:		1	N	~		Rec
Client: CIID		Standard	Dr.		HALL	ENVIR	RONMENT	AL
		]	0		ANAL		OKAI	<i>by 0</i> 0
Mailing Address:		Khes AS Ec	Bethey	4901 Hs	www.name	www.nanenvironmental.com ns NE - Albuqueraue. NM 87109	al.com	CD: 5
324W Male St. Sail	1/2 108 Artists NIVIBB210	Project #:	,	Tel. 506	10	Fax 505-3	505-345-4107	5/17/.
1 1	8/24. 1	11228401			An		iest	2022
email or Fax#: Scot. P	Heskella GAD com Settle & consources, con Larson @ CAD, con	Project Manager:	Haskell	(Gas only)	(SMI		30E Colt	4:34:03 PA
Accreditation □ Other	ther	ces C	Outles O No	HGT +	(1.40 8 0728	' <sup>2</sup> ON' <sup>E</sup> (	(A	M (N 10
□ EDD (Type)		Tempera	3-0-2=0.1	BE -	od 50	JN,I səbi		0 人)
Date Time Matrix	ix Sample Request ID	Container Preservative Type and # Type	e HEAL No. 2/05949	8TEX + MT BTEX + MT	TPH (Methor PAH's (831)	M 8 AROR O,7) anoinA S081 Pestic	8270 (Semi-	səldduB זiA
051920, 1230 S	TP16-10	They	025	2			2	
1 7235 1	TI>16-13		026					
4 1245 4	7-1197	-	027	*			+	
Date: Time: Relinqu Date: Time: Relinqu Find MM If MM If necessary, samples s	Time: Relinquished by:  Received by:  Received by:  Received by:  Received by:  Received by:  Received by:	Received by: Received by: IOUM & Intracted to other accredited laboratories.	Date Time Remarks: Please out, to Each comingle of the Time along with others listed above $S/U/U$ 730 Dive Rish Rill to EOG Classe ies. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	Remarks: Please Colons Colons Direct Processivility. Any sub-cor	Euse our South	others 1  be clearly notated	iske above the second on the analytical report	Page 83 of 52
								7

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



\_\_\_\_

July 19, 2021

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates AS Fee Battery OrderNo.: 2107284

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/8/2021 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2107284**Date Reported: **7/19/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-001 **Collection Date:** 7/6/2021 9:35:00 AM

Client Sample ID: TP2-13 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 300.0: ANIONS						Ana	alyst: <b>VI</b>	Έ
Chloride	5400	300		mg/Kg	100	7/14/2021 1:18:15	AM 61	1256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	alyst: SI	В
Diesel Range Organics (DRO)	1000	94		mg/Kg	10	7/12/2021 10:25:3	9 AM 61	1226
Motor Oil Range Organics (MRO)	540	470		mg/Kg	10	7/12/2021 10:25:39	9 AM 61	1226
Surr: DNOP	0	70-130	S	%Rec	10	7/12/2021 10:25:39	9 AM 61	1226
EPA METHOD 8015D: GASOLINE RANGE						Ana	alyst: <b>m</b>	ıb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	7/12/2021 4:06:00	PM 61	1201
Surr: BFB	157	70-130	S	%Rec	5	7/12/2021 4:06:00	PM 61	1201
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>m</b>	ıb
Benzene	ND	0.12		mg/Kg	5	7/12/2021 4:06:00	PM 61	1201
Toluene	ND	0.24		mg/Kg	5	7/12/2021 4:06:00	PM 61	1201
Ethylbenzene	ND	0.24		mg/Kg	5	7/12/2021 4:06:00	PM 61	1201
Xylenes, Total	ND	0.48		mg/Kg	5	7/12/2021 4:06:00	PM 61	1201
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	5	7/12/2021 4:06:00	PM 61	1201

**Lab ID:** 2107284-002 **Collection Date:** 7/6/2021 9:45:00 AM

Client Sample ID: TP2-16 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	lyst: <b>VP</b>
Chloride	9100	300		mg/Kg	100	7/14/2021 1:30:39	AM 61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	lyst: <b>SB</b>
Diesel Range Organics (DRO)	840	95		mg/Kg	10	7/12/2021 2:02:26 F	PM 61226
Motor Oil Range Organics (MRO)	580	470		mg/Kg	10	7/12/2021 2:02:26 F	PM 61226
Surr: DNOP	0	70-130	S	%Rec	10	7/12/2021 2:02:26 F	PM 61226
EPA METHOD 8015D: GASOLINE RANGE						Ana	lyst: <b>mb</b>
Gasoline Range Organics (GRO)	140	24		mg/Kg	5	7/12/2021 4:46:00 F	PM 61201
Surr: BFB	389	70-130	S	%Rec	5	7/12/2021 4:46:00 F	PM 61201
EPA METHOD 8021B: VOLATILES						Ana	lyst: <b>mb</b>
Benzene	ND	0.12		mg/Kg	5	7/12/2021 4:46:00 F	PM 61201
Toluene	ND	0.24		mg/Kg	5	7/12/2021 4:46:00 F	PM 61201
Ethylbenzene	2.4	0.24		mg/Kg	5	7/12/2021 4:46:00 F	PM 61201
Xylenes, Total	4.4	0.47		mg/Kg	5	7/12/2021 4:46:00 F	PM 61201
Surr: 4-Bromofluorobenzene	182	70-130	S	%Rec	5	7/12/2021 4:46:00 F	PM 61201

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

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Lab Order: 2107284

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-003 **Collection Date:** 7/6/2021 9:55:00 AM

Client Sample ID: TP2-20 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 7400 300 mg/Kg 100 7/14/2021 1:43:03 AM 61256 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 7/12/2021 2:26:59 PM 1200 91 mg/Kg 10 61226 Motor Oil Range Organics (MRO) 690 450 mg/Kg 7/12/2021 2:26:59 PM 61226 10 Surr: DNOP 0 70-130 S %Rec 10 7/12/2021 2:26:59 PM 61226 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 93 24 mg/Kg 5 7/12/2021 5:06:00 PM 61201 Surr: BFB 323 70-130 S %Rec 5 7/12/2021 5:06:00 PM 61201 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 7/12/2021 5:06:00 PM 0.12 mg/Kg 5 61201 Toluene ND 0.24 mg/Kg 5 7/12/2021 5:06:00 PM 61201 Ethylbenzene 0.24 5 61201 1.7 mg/Kg 7/12/2021 5:06:00 PM Xylenes, Total 2.2 0.48 mg/Kg 7/12/2021 5:06:00 PM 61201 Surr: 4-Bromofluorobenzene 169 70-130 %Rec 7/12/2021 5:06:00 PM 61201 S

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

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Lab Order: 2107284

oratory, Inc. Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-004 **Collection Date:** 7/6/2021 10:20:00 AM

Client Sample ID: TP3-16 Matrix: SOIL

**Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1200 60 7/13/2021 11:27:04 AM 61256 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 7/12/2021 11:37:13 AM 61226 97 mg/Kg Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/12/2021 11:37:13 AM 61226 Surr: DNOP 70.8 70-130 %Rec 7/12/2021 11:37:13 AM 61226 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 7/12/2021 5:46:00 PM ND 4.7 mg/Kg 1 Surr: BFB 115 70-130 %Rec 7/12/2021 5:46:00 PM 61201 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 7/12/2021 5:46:00 PM mg/Kg Toluene ND 0.047 7/12/2021 5:46:00 PM 61201 mg/Kg Ethylbenzene ND 0.047 mg/Kg 1 7/12/2021 5:46:00 PM 61201 Xylenes, Total ND 0.095 mg/Kg 7/12/2021 5:46:00 PM 61201 Surr: 4-Bromofluorobenzene 115 70-130 %Rec 7/12/2021 5:46:00 PM 61201

**Lab ID:** 2107284-005 **Collection Date:** 7/6/2021 10:30:00 AM

Client Sample ID: TP3-20 Matrix: SOIL

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 1900
 60
 mg/Kg
 20
 7/16/2021 8:48:49 AM
 61363

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

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**CLIENT:** 

### **Analytical Report**

Lab Order: 2107284

Date Reported: 7/19/2021

2107284

## Hall Environmental Analysis Laboratory, Inc.

Lab Order:

**Project:** Yates AS Fee Battery

GHD Midland

**Lab ID:** 2107284-006 **Collection Date:** 7/6/2021 10:50:00 AM

Client Sample ID: TP1-10 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: VP
Chloride	920	60	mg/Kg	20	7/13/2021 11:39:28 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: SB
Diesel Range Organics (DRO)	79	18	mg/Kg	2	7/13/2021 1:52:49 PM	61231
Motor Oil Range Organics (MRO)	150	91	mg/Kg	2	7/13/2021 1:52:49 PM	61231
Surr: DNOP	103	70-130	%Rec	2	7/13/2021 1:52:49 PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Analys	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2021 6:42:00 PM	61209
Surr: BFB	106	70-130	%Rec	1	7/10/2021 6:42:00 PM	61209
EPA METHOD 8021B: VOLATILES					Analys	: CCM
Benzene	ND	0.025	mg/Kg	1	7/10/2021 6:42:00 PM	61209
Toluene	ND	0.049	mg/Kg	1	7/10/2021 6:42:00 PM	61209
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2021 6:42:00 PM	61209
Xylenes, Total	ND	0.099	mg/Kg	1	7/10/2021 6:42:00 PM	61209
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	7/10/2021 6:42:00 PM	61209

**Lab ID:** 2107284-007 **Collection Date:** 7/6/2021 12:40:00 PM

Client Sample ID: TP1-15 Matrix: SOIL

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1700	60	mg/Kg	20	7/13/2021 11:51:52 AM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/13/2021 3:34:46 PM	61231
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/13/2021 3:34:46 PM	61231
Surr: DNOP	83.9	70-130	%Rec	1	7/13/2021 3:34:46 PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/10/2021 7:42:00 PM	61209
Surr: BFB	102	70-130	%Rec	1	7/10/2021 7:42:00 PM	61209
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	7/10/2021 7:42:00 PM	61209
Toluene	ND	0.048	mg/Kg	1	7/10/2021 7:42:00 PM	61209
Ethylbenzene	ND	0.048	mg/Kg	1	7/10/2021 7:42:00 PM	61209
Xylenes, Total	ND	0.097	mg/Kg	1	7/10/2021 7:42:00 PM	61209
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	7/10/2021 7:42:00 PM	61209

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2107284

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-008 **Collection Date:** 7/6/2021 12:50:00 PM

Client Sample ID: TP1-20 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 1300 61 mg/Kg 20 7/16/2021 9:01:13 AM 61363

**Lab ID:** 2107284-009 **Collection Date:** 7/6/2021 1:25:00 PM

Client Sample ID: TP5-8 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 860 59 mg/Kg 7/13/2021 12:04:16 PM 61256 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 7/13/2021 3:47:10 PM ND 8.9 mg/Kg 61231 1 Motor Oil Range Organics (MRO) ND 7/13/2021 3:47:10 PM 44 mg/Kg 1 61231 Surr: DNOP 83.0 70-130 %Rec 7/13/2021 3:47:10 PM 61231 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/10/2021 8:42:00 PM 61209 4.7 mg/Kg 1 Surr: BFB 91.3 70-130 %Rec 1 7/10/2021 8:42:00 PM 61209 **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 7/10/2021 8:42:00 PM 61209 Toluene ND 0.047 mg/Kg 7/10/2021 8:42:00 PM 61209 1 Ethylbenzene ND 0.047 mg/Kg 1 7/10/2021 8:42:00 PM 61209 Xylenes, Total ND 0.094 mg/Kg 1 7/10/2021 8:42:00 PM 61209 Surr: 4-Bromofluorobenzene 90.4 70-130 %Rec 7/10/2021 8:42:00 PM 61209

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

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**CLIENT:** 

### **Analytical Report**

Lab Order: **2107284**Date Reported: **7/19/2021** 

## Hall Environmental Analysis Laboratory, Inc.

**Lab Order:** 2107284

**Project:** Yates AS Fee Battery

GHD Midland

**Lab ID:** 2107284-010 **Collection Date:** 7/6/2021 2:00:00 PM

Client Sample ID: TP5-10 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	640	61	mg/Kg	20	7/13/2021 12:16:40 PM	1 61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	7/13/2021 3:59:43 PM	61231
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/13/2021 3:59:43 PM	61231
Surr: DNOP	82.1	70-130	%Rec	1	7/13/2021 3:59:43 PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2021 9:02:00 PM	61209
Surr: BFB	95.1	70-130	%Rec	1	7/10/2021 9:02:00 PM	61209
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	7/10/2021 9:02:00 PM	61209
Toluene	ND	0.047	mg/Kg	1	7/10/2021 9:02:00 PM	61209
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2021 9:02:00 PM	61209
Xylenes, Total	ND	0.094	mg/Kg	1	7/10/2021 9:02:00 PM	61209
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	7/10/2021 9:02:00 PM	61209

**Lab ID:** 2107284-011 **Collection Date:** 7/6/2021 2:15:00 PM

Client Sample ID: TP4-6 Matrix: SOIL

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	ND	60	mg/Kg	20	7/13/2021 12:29:04 PM	1 61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: <b>SB</b>
Diesel Range Organics (DRO)	9.8	9.5	mg/Kg	1	7/13/2021 1:28:56 PM	61231
Motor Oil Range Organics (MRO)	53	47	mg/Kg	1	7/13/2021 1:28:56 PM	61231
Surr: DNOP	96.8	70-130	%Rec	1	7/13/2021 1:28:56 PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/10/2021 9:21:00 PM	61209
Surr: BFB	99.2	70-130	%Rec	1	7/10/2021 9:21:00 PM	61209
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	7/10/2021 9:21:00 PM	61209
Toluene	ND	0.050	mg/Kg	1	7/10/2021 9:21:00 PM	61209
Ethylbenzene	ND	0.050	mg/Kg	1	7/10/2021 9:21:00 PM	61209
Xylenes, Total	ND	0.10	mg/Kg	1	7/10/2021 9:21:00 PM	61209
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	7/10/2021 9:21:00 PM	61209

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

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Lab Order: **2107284**Date Reported: **7/19/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-012 **Collection Date:** 7/6/2021 2:30:00 PM

Client Sample ID: TP4-12 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	650	60	mg/Kg	20	7/13/2021 1:06:18 PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: <b>SB</b>
Diesel Range Organics (DRO)	170	19	mg/Kg	2	7/13/2021 2:40:42 PM	61231
Motor Oil Range Organics (MRO)	330	93	mg/Kg	2	7/13/2021 2:40:42 PM	61231
Surr: DNOP	101	70-130	%Rec	2	7/13/2021 2:40:42 PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2021 9:41:00 PM	61209
Surr: BFB	95.3	70-130	%Rec	1	7/10/2021 9:41:00 PM	61209
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.023	mg/Kg	1	7/10/2021 9:41:00 PM	61209
Toluene	ND	0.047	mg/Kg	1	7/10/2021 9:41:00 PM	61209
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2021 9:41:00 PM	61209
Xylenes, Total	ND	0.093	mg/Kg	1	7/10/2021 9:41:00 PM	61209
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	7/10/2021 9:41:00 PM	61209

**Lab ID:** 2107284-013 **Collection Date:** 7/6/2021 2:40:00 PM

Client Sample ID: TP4-14 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>VP</b>
Chloride	570	60	mg/Kg	20	7/16/2021 9:13:38	AM 61363
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Ana	alyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/16/2021 1:34:03	PM 61329
Surr: BFB	95.3	70-130	%Rec	1	7/16/2021 1:34:03	PM 61329
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	7/16/2021 3:43:35	PM 61352
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/16/2021 3:43:35	PM 61352
Surr: DNOP	110	70-130	%Rec	1	7/16/2021 3:43:35	PM 61352

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2107284 Date Reported: 7/19/2021

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

Lab ID: 2107284-014 **Collection Date:** 7/6/2021 3:30:00 PM

Matrix: SOIL **Client Sample ID:** TP6-12

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300.0: ANIONS					Ana	alyst:	VP
Chloride	1200	60	mg/Kg	20	7/13/2021 1:18:42	PM	61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	alyst:	SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/13/2021 4:12:10	РМ	61231
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 4:12:10	PM	61231
Surr: DNOP	82.1	70-130	%Rec	1	7/13/2021 4:12:10	PM	61231
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst:	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2021 10:01:0	0 PM	61209
Surr: BFB	95.9	70-130	%Rec	1	7/10/2021 10:01:0	0 PM	61209
EPA METHOD 8021B: VOLATILES					Ana	alyst:	ССМ
Benzene	ND	0.025	mg/Kg	1	7/10/2021 10:01:0	0 PM	61209
Toluene	ND	0.049	mg/Kg	1	7/10/2021 10:01:0	0 PM	61209
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2021 10:01:0	0 PM	61209
Xylenes, Total	ND	0.098	mg/Kg	1	7/10/2021 10:01:0	0 PM	61209
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	7/10/2021 10:01:00	0 PM	61209

Lab ID: 2107284-015 **Collection Date:** 7/6/2021 3:45:00 PM

Matrix: SOIL Client Sample ID: TP6-14

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Anal	/st: <b>VP</b>
Chloride	700	60	mg/Kg	20	7/13/2021 1:31:06 P	M 61256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	yst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	7/13/2021 4:24:43 P	M 61231
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	7/13/2021 4:24:43 P	M 61231
Surr: DNOP	82.7	70-130	%Rec	1	7/13/2021 4:24:43 P	M 61231
EPA METHOD 8015D: GASOLINE RANGE					Anal	/st: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2021 10:21:00 I	PM 61209
Surr: BFB	99.6	70-130	%Rec	1	7/10/2021 10:21:00 I	PM 61209
EPA METHOD 8021B: VOLATILES					Anal	yst: CCM
Benzene	ND	0.024	mg/Kg	1	7/10/2021 10:21:00 I	PM 61209
Toluene	ND	0.047	mg/Kg	1	7/10/2021 10:21:00 I	PM 61209
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2021 10:21:00 I	PM 61209
Xylenes, Total	ND	0.095	mg/Kg	1	7/10/2021 10:21:00 I	PM 61209
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	7/10/2021 10:21:00 I	PM 61209

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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

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Lab Order: 2107284

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107284

**Project:** Yates AS Fee Battery

**Lab ID:** 2107284-016 **Collection Date:** 7/6/2021 4:00:00 PM

Client Sample ID: TP6-15 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 590 60 mg/Kg 20 7/16/2021 9:26:03 AM 61363

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

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### Hall Environmental Analysis Laboratory, Inc.

2107284

WO#:

19-Jul-21

**Client:** GHD Midland **Project:** Yates AS Fee Battery

Sample ID: MB-61256 SampType: MBLK

TestCode: EPA Method 300.0: Anions PBS

Client ID: Batch ID: 61256 RunNo: 79769

Prep Date: 7/13/2021 Analysis Date: 7/13/2021 SeqNo: 2806149 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-61256 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61256 RunNo: 79769

Units: mg/Kg Prep Date: 7/13/2021 Analysis Date: 7/13/2021 SeqNo: 2806150

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

Chloride 1.5 15.00 91.7

Sample ID: MB-61363 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61363 RunNo: 79843

Prep Date: 7/16/2021 Analysis Date: 7/16/2021 SeqNo: 2809981 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61363 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61363 RunNo: 79843

Prep Date: 7/16/2021 Analysis Date: 7/16/2021 SeqNo: 2809982 Units: mg/Kg

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

96.1 14 15.00 90 Chloride 1.5 n 110

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

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

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**Client:** 

GHD Midland

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Project: Yates A	S Fee Battery		
Sample ID: MB-61226	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61226	RunNo: <b>79729</b>	
Prep Date: <b>7/10/2021</b>	Analysis Date: 7/12/2021	SeqNo: <b>2804391</b>	Units: mg/Kg
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	9.2 10.00	91.8 70	130
Sample ID: LCS-61226 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics			
Client ID: LCSS	Batch ID: 61226	RunNo: <b>79729</b>	
Prep Date: <b>7/10/2021</b>	Analysis Date: 7/12/2021	SeqNo: <b>2804392</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	44 10 50.00	0 88.6 68.9	141
Surr: DNOP	4.9 5.000	97.2 70	130
Sample ID: LCS-61231	SampType: <b>LCS</b>	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61231	RunNo: 79755	
Prep Date: 7/12/2021	Analysis Date: 7/13/2021	SeqNo: 2806342	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	44 10 50.00	0 87.8 68.9	141
Surr: DNOP	4.2 5.000	83.9 70	130
Sample ID: MB-61231	SampType: <b>MBLK</b>	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61231	RunNo: <b>79755</b>	
Prep Date: <b>7/12/2021</b>	Analysis Date: 7/13/2021	SeqNo: <b>2806418</b>	Units: mg/Kg
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	8.1 10.00	81.3 70	130
Sample ID: MB-61352	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61352	RunNo: <b>79858</b>	
Prep Date: 7/15/2021	Analysis Date: 7/16/2021	SeqNo: <b>2809430</b>	Units: mg/Kg

#### Qualifiers:

Analyte

Surr: DNOP

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

Result

ND

ND

13

PQL

10

50

10.00

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

B Analyte detected in the associated Method Blank

126

HighLimit

130

70

%RPD

**RPDLimit** 

Qual

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

SPK value SPK Ref Val %REC LowLimit

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: LCS-61352 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61352 RunNo: 79858

Prep Date: 7/15/2021 Analysis Date: 7/16/2021 SeqNo: 2809432 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 46
 10
 50.00
 0
 92.6
 68.9
 141

 Surr: DNOP
 5.5
 5.000
 109
 70
 130

#### Qualifiers:

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

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Client:	GHD Midland
Project:	Yates AS Fee Battery

Sample ID: Ics-61201	SampT	ype: <b>LC</b>	S	Test	Code: <b>EF</b>	A Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: <b>61</b> 2	201	R	unNo: <b>7</b> 9	700				
Prep Date: 7/8/2021	Analysis D	ate: <b>7/</b> 9	9/2021	S	eqNo: <b>28</b>	302976	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	78.6	131			
Surr: BFB	1100		1000		109	70	130			
Sample ID: <b>mb-61201</b>	SampT	уре: <b>МЕ</b>	BLK	Test	Code: <b>EF</b>	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: <b>61</b> 2	201	R	unNo: <b>7</b> 9	700				
Prep Date: 7/8/2021	Analysis D	ate: <b>7/</b> 9	9/2021	S	eqNo: <b>28</b>	302977	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 080	5.0	1000		07.5	70	120			
Surr: BFB	980		1000		97.5	70	130			
Sample ID: Ics-61209	SampT	ype: <b>LC</b>	S	Test	Code: <b>EF</b>	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: <b>61</b> 2	209	R	unNo: <b>7</b> 9	9701				
Prep Date: <b>7/9/2021</b>	Analysis D	ate: <b>7/</b>	10/2021	S	eqNo: 28	303671	Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	25 1100	5.0	25.00 1000	0	101 113	78.6 70	131 130			
Suil. Di D	1100		1000							
Sample ID: 2107284-006ams	SampT	VDO: MC	•	Toot	Code: FF	A Method	8015D: Gaso	line Range	^	
·	Gampi	ype. IVIS	)				0010D. Cusc	inic italig	<b>5</b>	
Client ID: TP1-10	Batch	ID: <b>61</b> 2	209	R	unNo: <b>7</b> 9	9701			5	
·	•	ID: <b>61</b> 2	209	R		9701	Units: mg/K		<b>.</b>	
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte	Batch Analysis D Result	ID: <b>61</b> 2 ate: <b>7/</b> PQL	209 10/2021 SPK value	R S SPK Ref Val	unNo: <b>79</b> eqNo: <b>28</b> %REC	9701 803672 LowLimit	Units: mg/K		RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result	i ID: <b>61</b> 2 ate: <b>7/</b>	209 10/2021 SPK value 24.98	R S	unNo: <b>79</b> eqNo: <b>28</b> <u>%REC</u> 114	2701 803672 LowLimit 61.3	Units: mg/K HighLimit	g		Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte	Batch Analysis D Result 28 1200	ate: <b>7/</b> PQL 5.0	209 10/2021 SPK value 24.98 999.0	R S SPK Ref Val 0	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122	0701 803672 LowLimit 61.3 70	Units: mg/K HighLimit 114 130	g %RPD	RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd	Batch Analysis D Result 28 1200 SampT	PQL 5.0 5.0	209 10/2021 SPK value 24.98 999.0	SPK Ref Val 0	unNo: <b>79</b> eqNo: <b>28</b> <u>%REC</u> 114 122  Code: <b>EF</b>	2701 803672 LowLimit 61.3 70 PA Method	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10	Batch Analysis D Result 28 1200  SampT Batch	PQL 5.0 specification of the state of the st	209 10/2021 SPK value 24.98 999.0 6D 209	SPK Ref Val 0 Test	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122 Code: <b>EF</b> unNo: <b>79</b>	2701 803672 LowLimit 61.3 70 PA Method	Units: mg/K HighLimit 114 130 8015D: Gaso	g %RPD line Rang	RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd	Batch Analysis D Result 28 1200 SampT	PQL 5.0 specification of the state of the st	209 10/2021 SPK value 24.98 999.0 6D 209	SPK Ref Val 0 Test	unNo: <b>79</b> eqNo: <b>28</b> <u>%REC</u> 114 122  Code: <b>EF</b>	2701 803672 LowLimit 61.3 70 PA Method	Units: mg/K HighLimit 114 130	g %RPD line Rang	RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte	Batch Analysis D Result 28 1200 I SampT Batch Analysis D Result	PQL 5.0  State: 7/-  PQL 5.0  State: 7/-  PQL 5.0  PQL 7/-  PQL PQL	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value	SPK Ref Val  0  Test R S SPK Ref Val	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122  Code: <b>EF</b> unNo: <b>79</b> eqNo: <b>28</b>	20701 803672 LowLimit 61.3 70 PA Method 2701 803673 LowLimit	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit	g %RPD line Range	RPDLimit  e  RPDLimit	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result 28 1200  I SampT Batch Analysis D Result 22	PQL 5.0 5.0 still: 612 ate: 7/:	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value 23.58	SPK Ref Val 0 Test	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122 Code: <b>EF</b> unNo: <b>79</b> eqNo: <b>28</b> %REC 95.2	2701 803672 LowLimit 61.3 70 2A Method 2701 803673 LowLimit 61.3	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit 114	%RPD line Range  %RPD 23.5	RPDLimit  RPDLimit  20	
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte	Batch Analysis D Result 28 1200  I SampT Batch Analysis D Result 22 1100	PQL 5.0  ype: MS  ate: 7/  PQL 5.0  ype: MS  ATE: 7/  PQL 4.7	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value 23.58 943.4	SPK Ref Val  0  Test R S SPK Ref Val 0	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122 Code: <b>EF</b> unNo: <b>79</b> eqNo: <b>28</b> %REC 95.2 113	2701 803672 LowLimit 61.3 70 2A Method 9701 803673 LowLimit 61.3 70	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit 114 130	%RPD line Range  %RPD 23.5 0	RPDLimit  RPDLimit  20 0	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: mb-61209	Batch Analysis D Result 28 1200  SampT Batch Analysis D Result 22 1100  SampT	PQL 5.0  ype: MS ate: 7/ PQL 5.0  ype: MS ATE: 7/ PQL 4.7	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value 23.58 943.4	SPK Ref Val 0 Test R S SPK Ref Val 0	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122 Code: <b>EF</b> unNo: <b>79</b> eqNo: <b>28</b> %REC 95.2 113 Code: <b>EF</b>	2A Method 2A Method 370 2A Method 3701 303673 LowLimit 61.3 70	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit 114	%RPD line Range  %RPD 23.5 0	RPDLimit  RPDLimit  20 0	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: mb-61209 Client ID: PBS	Batch Analysis D Result 28 1200 I SampT Batch Analysis D Result 22 1100 SampT Batch	PQL 5.0  ype: MS 1ID: 612 ate: 7/-  PQL 4.7  PQL 4.7	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value 23.58 943.4	SPK Ref Val  0  Test R S SPK Ref Val 0  Test R R R R R R R R R	unNo: 79 eqNo: 28 %REC 114 122 Code: EF unNo: 79 eqNo: 28 %REC 95.2 113 Code: EF unNo: 79	20701 803672 LowLimit 61.3 70 2A Method 2701 61.3 70 2A Method 2701	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit 114 130  8015D: Gaso	g %RPD line Range  %RPD 23.5 0	RPDLimit  RPDLimit  20 0	Qual
Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: 2107284-006amsd Client ID: TP1-10 Prep Date: 7/9/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB  Sample ID: mb-61209	Batch Analysis D Result 28 1200  SampT Batch Analysis D Result 22 1100  SampT	PQL 5.0  ype: MS 1ID: 612 ate: 7/-  PQL 4.7  PQL 4.7	209 10/2021 SPK value 24.98 999.0 6D 209 10/2021 SPK value 23.58 943.4	SPK Ref Val  0  Test R S SPK Ref Val 0  Test R R R R R R R R R	unNo: <b>79</b> eqNo: <b>28</b> %REC 114 122 Code: <b>EF</b> unNo: <b>79</b> eqNo: <b>28</b> %REC 95.2 113 Code: <b>EF</b>	20701 803672 LowLimit 61.3 70 2A Method 2701 61.3 70 2A Method 2701	Units: mg/K HighLimit 114 130  8015D: Gaso Units: mg/K HighLimit 114 130	g %RPD line Range  %RPD 23.5 0	RPDLimit  RPDLimit  20 0	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

- 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-61209 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61209 RunNo: 79701

Prep Date: 7/9/2021 Analysis Date: 7/10/2021 SeqNo: 2803674 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.3 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- 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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: Ics-61201	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>El</b>	PA Method	iles						
Client ID: LCSS	Batch	n ID: <b>612</b>	201	F	RunNo: <b>7</b> 9	9700							
Prep Date: 7/8/2021	Analysis D	ate: 7/9	9/2021	S	SeqNo: 28	803024	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.99	0.025	1.000	0	99.4	80	120						
Toluene	0.99	0.050	1.000	0	99.2	80	120						
Ethylbenzene	1.0	0.050	1.000	0	100	80	120						
Xylenes, Total	3.0	0.10	3.000	0	101	80	120						
Surr: 4-Bromofluorobenzene	0.93 1.000				92.9	70	130						

Sample ID: <b>mb-61201</b>	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batcl	n ID: <b>61</b> :	201	F	RunNo: <b>7</b> 9	9700				
Prep Date: 7/8/2021	Analysis D	)ate: <b>7/</b>	9/2021	8	SeqNo: 2	803025	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: Ics-61209	SampT	ype: <b>LC</b>	s	Tes	tCode: El	EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	n ID: <b>61</b> 2	209	F	RunNo: <b>7</b> 9	9701							
Prep Date: 7/9/2021	Analysis D	Date: <b>7/</b>	10/2021	S	SeqNo: 2	803700	Units: mg/K	ίg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.96	0.025	1.000	0	96.0	80	120						
Toluene	0.97	0.050	1.000	0	96.6	80	120						
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120						
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120						
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130						

Sample ID: <b>mb-61209</b>	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batch	n ID: <b>61</b> 2	209	R	RunNo: 7	9701				
Prep Date: 7/9/2021	Analysis D	oate: <b>7/</b>	10/2021	S	SeqNo: 2	803701	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025			•					•
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

#### Qualifiers:

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

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** 

19-Jul-21

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: 2107284-007ams	SampT	ype: MS	3	Tes						
Client ID: TP1-15	Batch	n ID: <b>61</b> 2	209	F	RunNo: <b>7</b> 9	9701				
Prep Date: 7/9/2021	Analysis D	ate: <b>7/</b>	10/2021	S	SeqNo: 2	803703	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9643	0	96.8	80	120			
Toluene	0.94	0.048	0.9643	0	97.0	80	120			
Ethylbenzene	0.96	0.048	0.9643	0	99.4	80	120			
Xylenes, Total	2.9 0.096 2.893			0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		0.9643		93.7	70	130			

Sample ID: 2107284-007amsd	SampT	уре: М	SD	Tes						
Client ID: TP1-15	Batcl	n ID: <b>61</b> 2	209	F	RunNo: <b>7</b> 9	9701				
Prep Date: <b>7/9/2021</b>	Analysis D	ate: <b>7/</b>	10/2021	S	SeqNo: 2	803705	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9597	0	100	80	120	3.00	20	
Toluene	0.97	0.048	0.9597	0	102	80	120	4.11	20	
Ethylbenzene	1.0	0.048	0.9597	0	104	80	120	4.17	20	
Xylenes, Total	3.0	0.096	2.879	0	104	80	120	4.19	20	
Surr: 4-Bromofluorobenzene	0.90		0.9597		94.1	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

- 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107284** *19-Jul-21* 

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: Ics-61329 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS Batch ID: 61329 RunNo: 79856

Prep Date: 7/15/2021 Analysis Date: 7/16/2021 SeqNo: 2809408 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 24 5.0 25.00 97.4 70 130 Surr: BFB 480 500.0 96.0 70 130

Sample ID: mb-61329 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 61329 RunNo: 79856 Prep Date: 7/15/2021 Analysis Date: 7/16/2021 SeqNo: 2809409 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

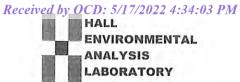
Surr: BFB 480 500.0 96.3 70 130

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Alhuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: GHD Midland	Work Order Number	r: 210	7284		RcptN	o: 1
Received By: Cheyenne Cason 7	7/8/2021 7:30:00 AM			Charl		
Completed By: Desiree Dominguez	7/8/2021 10:27:13 AM	1		TA		
Reviewed By: 3P 7/8/2/				22		
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
<u>Log In</u>						
3. Was an attempt made to cool the samples?		Yes	<b>V</b>	No 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes	<b>V</b>	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes	~	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	<b>V</b>	No 🗆		
7. Are samples (except VOA and ONG) properly p	reserved?	Yes	~	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	Yes		No 🗌	NA 🗸	
10, Were any sample containers received broken?		Yes		No 🗸	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	<b>V</b>	No 🗆	bottles checked for pH:	or >12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody?	Yes	~	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes	<b>V</b>	No 🗌		10
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	<b>V</b>	No 🗌	Checked by:	SPA 7.8.21
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	s order?	Yes		No 🗌	NA 🗸	
Person Notified:	Date:	_	_			
By Whom:	Via:	eM:	ail 🗀	Phone Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information Cooler No Temp °C Condition Seal 1 5.0 Good	Intact Seal No S	Seal D	ate	Signed By		

HALL ENVIRONMENTAL	DRATORY		- Albuquerque, NM 87109	rei: 503-545-5975 Fax 505-345-4107	Anidaysis Medicast	s's SO	SIM	2703 1) 2703 7, s 7, s	008/3 004. 8 10 00 8	O consideration of the selection of the	5D(vicioises) stircio stros Meti- Meti- Mo	Pes (Mes by 8 I (VO (VO	100H; 3081 3081; 31, F; 220 270 270 31, F; 31, F; 320 320 320 320 320 320 320 320 320 320	7	2 -		2	7 1/30 28.2	T					gresources.com; I.com: Along with	Direct Bill to EOG Chase Settle
Turn-Around Time:		Cates AS he B. H.	Project #:	1177.840;				Zach Comino	X Yes 🗆 No	olers:	Cooler Temp(including CF): H. Q+O. ( > 5.0		#				2012	4 -016 4	12/8/4-119-				Received by: Via: Date Time	MMM 500	More   More
Chain-of-Custody Record		Mailing Address:	324 W. Main St. Suite 108, Artesia NM 88210	Phone #: (505)377-4218	email or Fax#: Becky.Haskell@ghd.com	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	:uo	□ NELAC □ Other	□ EDD (Type)			Date Time Matrix Sample Name	Mar 1440 3 1794-14	1 1530 1 726-12	71 - VG1 2421	1	1600 11-0-15					Date: Time: Relinquished by:	reside 191	2



July 19, 2021

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

FAX:

RE: Yates As Fec Battery

OrderNo.: 2107397

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 24 sample(s) on 7/9/2021 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 2107397

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-001 **Collection Date:** 7/7/2021 8:15:00 AM

Client Sample ID: TP8-6 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: <b>VP</b>
Chloride	180	60	mg/Kg	20	7/14/2021 4:49:12 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	st: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/13/2021 12:28:52 P	M 61232
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 12:28:52 P	M 61232
Surr: DNOP	75.0	70-130	%Rec	1	7/13/2021 12:28:52 P	M 61232
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/12/2021 1:54:57 PM	61219
Surr: BFB	99.7	70-130	%Rec	1	7/12/2021 1:54:57 PM	61219
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2021 1:54:57 PM	61219
Toluene	ND	0.047	mg/Kg	1	7/12/2021 1:54:57 PM	61219
Ethylbenzene	ND	0.047	mg/Kg	1	7/12/2021 1:54:57 PM	61219
Xylenes, Total	ND	0.095	mg/Kg	1	7/12/2021 1:54:57 PM	61219
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/12/2021 1:54:57 PM	61219

**Lab ID:** 2107397-003 **Collection Date:** 7/7/2021 8:30:00 AM

Client Sample ID: TP18-S Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	ND	59	mg/Kg	20	7/14/2021 5:14:01 AM	M 61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	43	9.1	mg/Kg	1	7/14/2021 6:07:34 PM	M 61232
Motor Oil Range Organics (MRO)	320	46	mg/Kg	1	7/14/2021 6:07:34 PM	M 61232
Surr: DNOP	89.9	70-130	%Rec	1	7/14/2021 6:07:34 PM	И 61232
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2021 4:17:47 PM	M 61219
Surr: BFB	96.5	70-130	%Rec	1	7/12/2021 4:17:47 PM	M 61219
<b>EPA METHOD 8021B: VOLATILES</b>					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2021 4:17:47 PM	M 61219
Toluene	ND	0.048	mg/Kg	1	7/12/2021 4:17:47 PM	M 61219
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2021 4:17:47 PM	M 61219
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2021 4:17:47 PM	M 61219
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	7/12/2021 4:17:47 PM	M 61219

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

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Lab Order: 2107397

Date Reported: **7/19/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-004 **Collection Date:** 7/7/2021 8:40:00 AM

Client Sample ID: TP18-2 Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 7/14/2021 5:26:26 AM 61269 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 7/13/2021 1:05:36 PM ND 9.8 mg/Kg 61232 Motor Oil Range Organics (MRO) ND 7/13/2021 1:05:36 PM 61232 49 mg/Kg 1 Surr: DNOP 70.4 70-130 %Rec 7/13/2021 1:05:36 PM 61232 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 7/12/2021 4:41:35 PM 61219 Surr: BFB 98.2 70-130 %Rec 1 7/12/2021 4:41:35 PM 61219 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 7/12/2021 4:41:35 PM mg/Kg 61219 Toluene ND 0.047 mg/Kg 7/12/2021 4:41:35 PM 61219 Ethylbenzene ND 0.047 mg/Kg 1 7/12/2021 4:41:35 PM 61219 Xylenes, Total ND 0.094 mg/Kg 7/12/2021 4:41:35 PM 61219 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 7/12/2021 4:41:35 PM 61219

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

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Lab Order: 2107397

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-005 **Collection Date:** 7/7/2021 9:05:00 AM

Client Sample ID: TP16-16 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	4800	150	mg/Kg	50	7/15/2021 4:57:53 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/13/2021 1:17:53 PM	61232
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/13/2021 1:17:53 PM	61232
Surr: DNOP	79.6	70-130	%Rec	1	7/13/2021 1:17:53 PM	61232
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2021 5:05:22 PM	61219
Surr: BFB	101	70-130	%Rec	1	7/12/2021 5:05:22 PM	61219
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2021 5:05:22 PM	61219
Toluene	ND	0.048	mg/Kg	1	7/12/2021 5:05:22 PM	61219
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2021 5:05:22 PM	61219
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2021 5:05:22 PM	61219
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/12/2021 5:05:22 PM	61219

**Lab ID:** 2107397-006 **Collection Date:** 7/7/2021 9:15:00 AM

Client Sample ID: TP16-20 Matrix: SOIL

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	5000	150	mg/Kg	50	7/15/2021 5:10:18 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/13/2021 1:30:10 PM	61232
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/13/2021 1:30:10 PM	61232
Surr: DNOP	79.8	70-130	%Rec	1	7/13/2021 1:30:10 PM	61232
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2021 5:29:09 PM	61219
Surr: BFB	101	70-130	%Rec	1	7/12/2021 5:29:09 PM	61219
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2021 5:29:09 PM	61219
Toluene	ND	0.049	mg/Kg	1	7/12/2021 5:29:09 PM	61219
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2021 5:29:09 PM	61219
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2021 5:29:09 PM	61219
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	7/12/2021 5:29:09 PM	61219

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

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Lab Order: 2107397

Date Reported: 7/19/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-007 **Collection Date:** 7/7/2021 9:45:00 AM

Client Sample ID: TP14-16 Matrix: SOIL

Chem Sumple 12.	Water Sol						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bato	ch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>\</b>	/P
Chloride	6300	300	mg/Kg	100	7/15/2021 5:22:42	PM 6	31269
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	alyst: <b>\$</b>	3B
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/13/2021 1:42:28	PM 6	31232
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 1:42:28	PM 6	31232
Surr: DNOP	81.1	70-130	%Rec	1	7/13/2021 1:42:28	PM 6	31232
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: N	<b>ISB</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 5:52:55	PM 6	31219
Surr: BFB	99.8	70-130	%Rec	1	7/12/2021 5:52:55	PM 6	31219
EPA METHOD 8021B: VOLATILES					Ana	alyst: <b>N</b>	<b>ISB</b>
Benzene	ND	0.025	mg/Kg	1	7/12/2021 5:52:55	PM 6	61219
Toluene	ND	0.050	mg/Kg	1	7/12/2021 5:52:55	PM 6	61219
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 5:52:55	PM 6	31219
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2021 5:52:55	PM 6	31219
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/12/2021 5:52:55	PM 6	61219

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2107397

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-008 **Collection Date:** 7/7/2021 10:00:00 AM

Client Sample ID: TP14-20 Matrix: SOIL

**Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP mg/Kg 100 7/15/2021 5:35:07 PM Chloride 7100 300 61269 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 7/13/2021 1:54:56 PM 61232 93 mg/Kg Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 7/13/2021 1:54:56 PM 61232 Surr: DNOP 7/13/2021 1:54:56 PM 79.8 70-130 %Rec 61232 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/12/2021 6:16:41 PM 4.8 mg/Kg 1 Surr: BFB 99.4 70-130 %Rec 7/12/2021 6:16:41 PM 61219 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/12/2021 6:16:41 PM 61219 mg/Kg Toluene ND 0.048 61219 mg/Kg 7/12/2021 6:16:41 PM Ethylbenzene ND 0.048 mg/Kg 1 7/12/2021 6:16:41 PM 61219 Xylenes, Total ND 0.096 mg/Kg 7/12/2021 6:16:41 PM 61219 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 7/12/2021 6:16:41 PM 61219

**Lab ID:** 2107397-009 **Collection Date:** 7/7/2021 10:50:00 AM

Client Sample ID: TP12-16 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	Satch ID
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>
Chloride	5000	150	mg/Kg	50	7/15/2021 5:47:32 PM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/13/2021 2:07:20 PM	61232
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 2:07:20 PM	61232
Surr: DNOP	81.4	70-130	%Rec	1	7/13/2021 2:07:20 PM	61232
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/12/2021 6:40:26 PM	61219
Surr: BFB	99.9	70-130	%Rec	1	7/12/2021 6:40:26 PM	61219
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2021 6:40:26 PM	61219
Toluene	ND	0.047	mg/Kg	1	7/12/2021 6:40:26 PM	61219
Ethylbenzene	ND	0.047	mg/Kg	1	7/12/2021 6:40:26 PM	61219
Xylenes, Total	ND	0.095	mg/Kg	1	7/12/2021 6:40:26 PM	61219
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/12/2021 6:40:26 PM	61219

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

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Lab Order: 2107397

Date Reported: 7/19/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-010 **Collection Date:** 7/7/2021 11:00:00 AM

Client Sample ID: TP12-20 Matrix: SOIL

Chent Sample ID: 1712-20		Matrix: SOIL							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID			
EPA METHOD 300.0: ANIONS					Anal	lyst: <b>VP</b>			
Chloride	4200	150	mg/Kg	50	7/15/2021 5:59:57 F	PM 61269			
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Anal	lyst: <b>SB</b>			
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	7/13/2021 2:19:46 F	PM 61232			
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/13/2021 2:19:46 F	PM 61232			
Surr: DNOP	81.6	70-130	%Rec	1	7/13/2021 2:19:46 F	PM 61232			
EPA METHOD 8015D: GASOLINE RANGE					Anal	lyst: <b>NSB</b>			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2021 7:04:06 F	PM 61219			
Surr: BFB	102	70-130	%Rec	1	7/12/2021 7:04:06 F	PM 61219			
EPA METHOD 8021B: VOLATILES					Anal	lyst: <b>NSB</b>			
Benzene	ND	0.025	mg/Kg	1	7/12/2021 7:04:06 F	PM 61219			
Toluene	ND	0.049	mg/Kg	1	7/12/2021 7:04:06 F	PM 61219			
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2021 7:04:06 F	PM 61219			
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2021 7:04:06 F	PM 61219			
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	7/12/2021 7:04:06 F	PM 61219			

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2107397

2107397

**y, Inc.** Date Reported: 7/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order:

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-011 **Collection Date:** 7/7/2021 12:30:00 PM

Client Sample ID: TP19-S Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analy	st: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/14/2021 7:18:06 AN	1 61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analy	st: SB
Diesel Range Organics (DRO)	110	99		mg/Kg	10	7/13/2021 11:31:02 P	M 61232
Motor Oil Range Organics (MRO)	570	500		mg/Kg	10	7/13/2021 11:31:02 P	M 61232
Surr: DNOP	0	70-130	S	%Rec	10	7/13/2021 11:31:02 P	M 61232
EPA METHOD 8015D: GASOLINE RANGE						Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2021 7:51:28 PN	1 61219
Surr: BFB	96.7	70-130		%Rec	1	7/12/2021 7:51:28 PM	1 61219
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.024		mg/Kg	1	7/12/2021 7:51:28 PN	1 61219
Toluene	ND	0.049		mg/Kg	1	7/12/2021 7:51:28 PN	1 61219
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2021 7:51:28 PN	1 61219
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2021 7:51:28 PN	1 61219
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/12/2021 7:51:28 PM	1 61219

**Lab ID:** 2107397-012 **Collection Date:** 7/7/2021 12:40:00 PM

Client Sample ID: TP19-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/14/2021 7:30:30 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/13/2021 9:54:02 PM	61232
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 9:54:02 PM	61232
Surr: DNOP	71.5	70-130	%Rec	1	7/13/2021 9:54:02 PM	61232
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2021 8:38:46 PM	61219
Surr: BFB	96.6	70-130	%Rec	1	7/12/2021 8:38:46 PM	61219
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2021 8:38:46 PM	61219
Toluene	ND	0.049	mg/Kg	1	7/12/2021 8:38:46 PM	61219
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2021 8:38:46 PM	61219
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2021 8:38:46 PM	61219
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/12/2021 8:38:46 PM	61219

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

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Lab Order: 2107397

Date Reported: 7/19/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-013 **Collection Date:** 7/7/2021 12:50:00 PM

Client Sample ID: TP20-S Matrix: SOIL

Result **RL Oual Units DF** Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 7/14/2021 7:42:54 AM 61269 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 7/14/2021 4:53:42 PM ND 9.1 mg/Kg 61233 Motor Oil Range Organics (MRO) 64 7/14/2021 4:53:42 PM 61233 46 mg/Kg 1 Surr: DNOP 110 70-130 %Rec 7/14/2021 4:53:42 PM 61233 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb 7/12/2021 7:07:00 PM Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 61227 Surr: BFB 114 70-130 %Rec 1 7/12/2021 7:07:00 PM 61227 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 7/12/2021 7:07:00 PM mg/Kg 61227 Toluene ND 0.049 mg/Kg 7/12/2021 7:07:00 PM 61227 Ethylbenzene ND 61227 0.049 mg/Kg 1 7/12/2021 7:07:00 PM Xylenes, Total ND 0.097 mg/Kg 7/12/2021 7:07:00 PM 61227 Surr: 4-Bromofluorobenzene 113 70-130 %Rec 7/12/2021 7:07:00 PM 61227

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

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Lab Order: 2107397

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-014 **Collection Date:** 7/7/2021 1:15:00 PM

Client Sample ID: TP20-2 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/14/2021 7:55:18 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/13/2021 5:27:59 PM	61233
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/13/2021 5:27:59 PM	61233
Surr: DNOP	97.8	70-130	%Rec	1	7/13/2021 5:27:59 PM	61233
EPA METHOD 8015D: GASOLINE RANGE					Analyst	mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2021 8:06:00 PM	61227
Surr: BFB	114	70-130	%Rec	1	7/12/2021 8:06:00 PM	61227
EPA METHOD 8021B: VOLATILES					Analyst	mb
Benzene	ND	0.024	mg/Kg	1	7/12/2021 8:06:00 PM	61227
Toluene	ND	0.049	mg/Kg	1	7/12/2021 8:06:00 PM	61227
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2021 8:06:00 PM	61227
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2021 8:06:00 PM	61227
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	7/12/2021 8:06:00 PM	61227

**Lab ID:** 2107397-015 **Collection Date:** 7/7/2021 1:25:00 PM

Client Sample ID: TP21-2 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	6400	300	mg/Kg	100	7/15/2021 6:12:22 PM	1 61287
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analy	st: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/13/2021 5:52:03 PM	1 61233
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/13/2021 5:52:03 PM	1 61233
Surr: DNOP	111	70-130	%Rec	1	7/13/2021 5:52:03 PM	1 61233
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2021 9:06:00 PM	1 61227
Surr: BFB	116	70-130	%Rec	1	7/12/2021 9:06:00 PM	1 61227
EPA METHOD 8021B: VOLATILES					Analy	st: <b>mb</b>
Benzene	ND	0.024	mg/Kg	1	7/12/2021 9:06:00 PM	1 61227
Toluene	ND	0.049	mg/Kg	1	7/12/2021 9:06:00 PM	1 61227
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2021 9:06:00 PM	1 61227
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2021 9:06:00 PM	1 61227
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	7/12/2021 9:06:00 PM	1 61227

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

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Lab Order: 2107397

Date Reported: 7/19/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-016 **Collection Date:** 7/7/2021 1:30:00 PM

Client Sample ID: TP21-8 Matrix: SOIL

Cheff Sample ID: 1121 0		WWW. SOIL							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID			
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>			
Chloride	6700	300	mg/Kg	100	7/15/2021 6:24:47 F	PM 61287			
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Ana	lyst: <b>SB</b>			
Diesel Range Organics (DRO)	ND	8.2	mg/Kg	1	7/13/2021 6:16:06 F	PM 61233			
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	7/13/2021 6:16:06 F	PM 61233			
Surr: DNOP	112	70-130	%Rec	1	7/13/2021 6:16:06 F	PM 61233			
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: <b>mb</b>			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2021 9:26:00 F	PM 61227			
Surr: BFB	112	70-130	%Rec	1	7/12/2021 9:26:00 F	PM 61227			
EPA METHOD 8021B: VOLATILES					Ana	lyst: <b>mb</b>			
Benzene	ND	0.024	mg/Kg	1	7/12/2021 9:26:00 F	PM 61227			
Toluene	ND	0.048	mg/Kg	1	7/12/2021 9:26:00 F	PM 61227			
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2021 9:26:00 F	PM 61227			
Xylenes, Total	ND	0.097	mg/Kg	1	7/12/2021 9:26:00 F	PM 61227			
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	7/12/2021 9:26:00 F	PM 61227			

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

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Lab Order: **2107397** 

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-017 **Collection Date:** 7/7/2021 1:50:00 PM

Client Sample ID: TP21-15 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: <b>VP</b>
Chloride	7300	300	mg/Kg	100	7/15/2021 6:37:12 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	:: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/13/2021 6:40:06 PM	61233
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/13/2021 6:40:06 PM	61233
Surr: DNOP	96.5	70-130	%Rec	1	7/13/2021 6:40:06 PM	61233
EPA METHOD 8015D: GASOLINE RANGE					Analys	:: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 9:46:00 PM	61227
Surr: BFB	117	70-130	%Rec	1	7/12/2021 9:46:00 PM	61227
EPA METHOD 8021B: VOLATILES					Analys	:: mb
Benzene	ND	0.025	mg/Kg	1	7/12/2021 9:46:00 PM	61227
Toluene	ND	0.050	mg/Kg	1	7/12/2021 9:46:00 PM	61227
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 9:46:00 PM	61227
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2021 9:46:00 PM	61227
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	7/12/2021 9:46:00 PM	61227

**Lab ID:** 2107397-018 **Collection Date:** 7/7/2021 2:00:00 PM

Client Sample ID: TP21-20 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch	ID
EPA METHOD 300.0: ANIONS					Ana	alyst: <b>VP</b>	)
Chloride	6900	300	mg/Kg	100	7/15/2021 6:49:37	PM 612	287
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	alyst: SB	3
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/13/2021 7:04:03	PM 612	233
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/13/2021 7:04:03	PM 612	233
Surr: DNOP	97.8	70-130	%Rec	1	7/13/2021 7:04:03	PM 612	233
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: <b>m</b> b	b
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 10:06:00	PM 612	227
Surr: BFB	115	70-130	%Rec	1	7/12/2021 10:06:00	PM 612	227
EPA METHOD 8021B: VOLATILES					Ana	alyst: <b>m</b> b	b
Benzene	ND	0.025	mg/Kg	1	7/12/2021 10:06:00	PM 612	227
Toluene	ND	0.050	mg/Kg	1	7/12/2021 10:06:00	PM 612	227
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 10:06:00	PM 612	227
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2021 10:06:00	PM 612	227
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	7/12/2021 10:06:00	PM 612	227

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

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Lab Order: 2107397

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-019 **Collection Date:** 7/7/2021 3:05:00 PM

Client Sample ID: TP11-8 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch I	ID
EPA METHOD 300.0: ANIONS					Analy	st: VP	
Chloride	150	59	mg/Kg	20	7/14/2021 11:44:45	M 6128	87
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analy	st: SB	
Diesel Range Organics (DRO)	32	9.3	mg/Kg	1	7/14/2021 5:42:40 P	A 6123	33
Motor Oil Range Organics (MRO)	120	46	mg/Kg	1	7/14/2021 5:42:40 P	A 6123	33
Surr: DNOP	97.2	70-130	%Rec	1	7/14/2021 5:42:40 P	A 6123	33
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: <b>mb</b>	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 11:26:00 F	M 6122	27
Surr: BFB	114	70-130	%Rec	1	7/12/2021 11:26:00 F	M 6122	27
EPA METHOD 8021B: VOLATILES					Analy	st: <b>mb</b>	
Benzene	ND	0.025	mg/Kg	1	7/12/2021 11:26:00 F	M 6122	27
Toluene	ND	0.050	mg/Kg	1	7/12/2021 11:26:00 F	M 6122	27
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 11:26:00 F	M 6122	27
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2021 11:26:00 F	M 6122	27
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	7/12/2021 11:26:00 F	PM 6122	27

**Lab ID:** 2107397-020 **Collection Date:** 7/7/2021 3:20:00 PM

Client Sample ID: TP11-12 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Ana	alyst:	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/13/2021 7:52:08	РМ	61233
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/13/2021 7:52:08	PM	61233
Surr: DNOP	97.3	70-130	%Rec	1	7/13/2021 7:52:08	PM	61233
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst:	mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 11:46:00	) PM	61227
Surr: BFB	113	70-130	%Rec	1	7/12/2021 11:46:00	PM	61227
EPA METHOD 8021B: VOLATILES					Ana	alyst:	mb
Benzene	ND	0.025	mg/Kg	1	7/12/2021 11:46:00	) PM	61227
Toluene	ND	0.050	mg/Kg	1	7/12/2021 11:46:00	PM	61227
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 11:46:00	PM	61227
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2021 11:46:00	PM	61227
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	7/12/2021 11:46:00	PM	61227

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- 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

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Lab Order: 2107397

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2021

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-021 **Collection Date:** 7/7/2021 3:45:00 PM

Client Sample ID: TP10-12 Matrix: SOIL

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS					Ana	lyst:	VP
Chloride	220	60	mg/Kg	20	7/14/2021 12:09:34	РМ	61287
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Ana	lyst:	SB
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	7/13/2021 8:16:30 F	PM	61233
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/13/2021 8:16:30 F	PM	61233
Surr: DNOP	96.1	70-130	%Rec	1	7/13/2021 8:16:30 F	PM	61233
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst:	mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/13/2021 12:06:00	AM	61227
Surr: BFB	109	70-130	%Rec	1	7/13/2021 12:06:00	AM	61227
EPA METHOD 8021B: VOLATILES					Ana	lyst:	mb
Benzene	ND	0.025	mg/Kg	1	7/13/2021 12:06:00	AM	61227
Toluene	ND	0.050	mg/Kg	1	7/13/2021 12:06:00	AM	61227
Ethylbenzene	ND	0.050	mg/Kg	1	7/13/2021 12:06:00	AM	61227
Xylenes, Total	ND	0.099	mg/Kg	1	7/13/2021 12:06:00	AM	61227
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	7/13/2021 12:06:00	AM	61227

**Lab ID:** 2107397-023 **Collection Date:** 7/7/2021 4:05:00 PM

Client Sample ID: TP22-S Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS						Ana	alyst:	VP
Chloride	ND	60		mg/Kg	20	7/14/2021 12:34:24	4 PM	61287
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Ana	alyst:	SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/13/2021 9:05:12	PM	61233
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2021 9:05:12	PM	61233
Surr: DNOP	134	70-130	S	%Rec	1	7/13/2021 9:05:12	PM	61233
EPA METHOD 8015D: GASOLINE RANGE						Ana	alyst:	mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 12:46:00	MA C	61227
Surr: BFB	111	70-130		%Rec	1	7/13/2021 12:46:00	MA C	61227
<b>EPA METHOD 8021B: VOLATILES</b>						Ana	alyst:	mb
Benzene	ND	0.024		mg/Kg	1	7/13/2021 12:46:00	MA C	61227
Toluene	ND	0.049		mg/Kg	1	7/13/2021 12:46:00	MA C	61227
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 12:46:00	MA C	61227
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 12:46:00	MA C	61227
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	7/13/2021 12:46:00	MA C	61227

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

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Lab Order: 2107397

Date Reported: 7/19/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 2107397

**Project:** Yates As Fec Battery

**Lab ID:** 2107397-024 **Collection Date:** 7/7/2021 4:15:00 PM

Client Sample ID: TP22-2 Matrix: SOIL

Chefit Sample ID: 1722-2		Matrix; SOIL									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID	)				
EPA METHOD 300.0: ANIONS					Ana	lyst: <b>VP</b>					
Chloride	ND	59	mg/Kg	20	7/14/2021 12:46:48	PM 61287	•				
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Ana	lyst: <b>SB</b>					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/13/2021 9:29:34 I	PM 61233	3				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/13/2021 9:29:34 I	PM 61233	}				
Surr: DNOP	120	70-130	%Rec	1	7/13/2021 9:29:34 I	PM 61233	j				
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: <b>mb</b>					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/13/2021 1:06:00	AM 61227	,				
Surr: BFB	111	70-130	%Rec	1	7/13/2021 1:06:00	AM 61227	,				
EPA METHOD 8021B: VOLATILES					Ana	lyst: <b>mb</b>					
Benzene	ND	0.025	mg/Kg	1	7/13/2021 1:06:00	AM 61227	,				
Toluene	ND	0.049	mg/Kg	1	7/13/2021 1:06:00	AM 61227	,				
Ethylbenzene	ND	0.049	mg/Kg	1	7/13/2021 1:06:00	AM 61227	*				
Xylenes, Total	ND	0.099	mg/Kg	1	7/13/2021 1:06:00	AM 61227	,				
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	7/13/2021 1:06:00	AM 61227	,				
Xylenes, Total	ND	0.099	mg/Kg		7/13/2021 1:06:00	AM 6122	7				

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107397 19-Jul-21** 

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: MB-61269 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61269 RunNo: 79769

Prep Date: 7/13/2021 Analysis Date: 7/14/2021 SeqNo: 2806234 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61269 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61269 RunNo: 79769

Prep Date: 7/13/2021 Analysis Date: 7/14/2021 SeqNo: 2806235 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 90 110

Sample ID: MB-61287 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61287 RunNo: 79791

Prep Date: 7/14/2021 Analysis Date: 7/14/2021 SeqNo: 2808214 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61287 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61287 RunNo: 79791

Prep Date: 7/14/2021 Analysis Date: 7/14/2021 SeqNo: 2808215 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.8 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

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### Hall Environmental Analysis Laboratory, Inc.

2107397 19-Jul-21

WO#:

Client: GHD Midland
Project: Yates As Fec Battery

Project: Yates As	Fec Battery									
Sample ID: MB-61232	SampTyp	e: ME	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch II	D: <b>61</b> 2	232	F	RunNo: <b>7</b> 9	9755				
Prep Date: 7/12/2021	Analysis Dat	e: <b>7/</b>	13/2021	S	SeqNo: 28	805596	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	9.0		10.00		89.8	70	130			
Sample ID: LCS-61232	SampTyp	e: LC	S	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch II	D: <b>61</b> 2	232	F	RunNo: <b>7</b> 9	9755				
Prep Date: <b>7/12/2021</b>	Analysis Dat	e: <b>7/</b>	13/2021	S	SeqNo: 28	805597	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	68.9	141			
Surr: DNOP	4.6		5.000		91.7	70	130			
Sample ID: MB-61233	SampTyp	e: ME	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 61233			F	RunNo: <b>7</b> 9	9756				
Prep Date: 7/12/2021	Analysis Dat	e: <b>7/</b>	13/2021	S	SeqNo: 28	806322	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		114	70	130			
Sample ID: LCS-61233	SampTyp	e: LC	S	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch II	D: <b>61</b> 2	233	F	RunNo: <b>7</b> 9	9756				
Prep Date: <b>7/12/2021</b>	Analysis Dat	e: <b>7/</b>	13/2021	S	SeqNo: 28	806323	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	68.9	141			
Surr: DNOP	5.6		5.000		111	70	130			
Sample ID: <b>2107397-013AMS</b>	SampTyp	e: MS	5	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: TP20-S	Batch II	D: <b>61</b> 2	233	F	RunNo: <b>7</b> 9	9790				
Prep Date: <b>7/12/2021</b>	Analysis Dat	e: <b>7/</b>	14/2021	S	SeqNo: 28	807640	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.4	46.95	5.996	104	15	184			
C DNOD	C 4		4.005		407	70	400			0

#### Qualifiers:

Surr: DNOP

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

6.4

- 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

137

70

130

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

4.695

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S

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107397** *19-Jul-21* 

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: 2107397-013AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **TP20-S** Batch ID: **61233** RunNo: **79790** 

Prep Date: 7/12/2021 Analysis Date: 7/14/2021 SeqNo: 2807642 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.6	47.85	5.996	61.7	15	184	42.6	23.9	R
Surr: DNOP	4.7		4.785		97.8	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

- 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2107397

19-Jul-21

Client:	GHD Midland
Project:	Yates As Fec Battery

	rec Batter									
Sample ID: mb-61219	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: <b>El</b>	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: <b>61</b> 2	219	F	RunNo: <b>7</b> 9	9735				
Prep Date: 7/9/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804597	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.6	70	130			
Sample ID: Ics-61219	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>El</b>	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: <b>61</b> 2	219	F	RunNo: <b>7</b> 9	9735				
Prep Date: 7/9/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804598	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	78.6	131			
Surr: BFB	1100		1000		108	70	130			
Sample ID: <b>mb-61227</b>	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: <b>61</b> 2	227	F	RunNo: <b>7</b> 9	9725				
Prep Date: 7/10/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804718	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	1000		445	70	400			
Surr: BFB	1100		1000		115	70	130			
Sample ID: Ics-61227	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: <b>61</b> 2	227	F	RunNo: 7	9725				
Prep Date: <b>7/10/2021</b>	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804719	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.7	78.6	131			
Surr: BFB	1300		1000		127	70	130			
Sample ID: 2107397-013ams	SampT	ype: <b>MS</b>	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: TP20-S	Batch	ID: <b>61</b> 2	227	F	RunNo: <b>7</b> 9	9725				
Prep Date: 7/10/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804720	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.65	0	84.5	61.3	114			
Surr: BFB	1200		986.2		126	70	130			
Sample ID: 2107397-013amsd	SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: TP20-S	Batch	ID: <b>61</b> 2	227	F	RunNo: <b>7</b> 9	9725				
Prep Date: 7/10/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804721	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### Qualifiers:

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107397** 

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: 2107397-013amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **TP20-S** Batch ID: **61227** RunNo: **79725** 

Prep Date: 7/10/2021 Analysis Date: 7/12/2021 SeqNo: 2804721 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 61.3 2.87 20 Gasoline Range Organics (GRO) 21 5.0 24.75 86.6 114 Surr: BFB 1200 990.1 122 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107397** 

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: mb-61219	SampT	SampType: MBLK			tCode: El	iles				
Client ID: PBS	Batcl	n ID: <b>61</b> 2	219	F	RunNo: 7					
Prep Date: 7/9/2021	Analysis D	)ate: <b>7/</b>	12/2021	S	SeqNo: 2	2804627 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: LCS-61219	SampT	ype: <b>LC</b>	S	Tes	tCode: El	EPA Method 8021B: Volatiles					
Client ID: LCSS	Batcl	n ID: <b>61</b> 2	219	F	RunNo: 7						
Prep Date: 7/9/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: <b>2804628</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	99.6	80	120				
Toluene	1.0	0.050	1.000	0	100	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130				

Sample ID: <b>mb-61227</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>61</b> 2	227	F	RunNo: <b>7</b> 9	9725				
Prep Date: 7/10/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 28	804759	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Sample ID: Ics-61227	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: <b>61</b> 2	227	F	9725					
Prep Date: <b>7/10/2021</b>	Analysis Date: 7/12/2021			S	SeqNo: 2	804760	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	70	130			

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107397** 

19-Jul-21

Client: GHD Midland
Project: Yates As Fec Battery

Sample ID: 2107397-014ams	SampT	ype: MS	3	Tes	tCode: El	iles				
Client ID: TP20-2	Batch	n ID: <b>61</b> 2	227	F	RunNo: 7	9725				
Prep Date: 7/10/2021	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 2	804761	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9728	0	97.2	80	120			
Toluene	0.98	0.049	0.9728	0	101	80	120			
Ethylbenzene	1.0	0.049	0.9728	0	103	80	120			
Xylenes, Total	3.0	0.097	2.918	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9728		114	70	130			

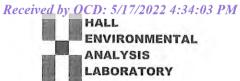
Sample ID: 2107397-014amsd	SampT	SampType: MSD		Tes		•				
Client ID: <b>TP20-2</b> Batch ID: <b>61227</b> RunNo: <b>79725</b>						9725				
Prep Date: <b>7/10/2021</b>	Analysis D	ate: <b>7/</b>	12/2021	S	SeqNo: 2	804762	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9911	0	95.2	80	120	0.227	20	
Toluene	0.96	0.050	0.9911	0	97.3	80	120	1.36	20	
Ethylbenzene	1.0	0.050	0.9911	0	101	80	120	0.147	20	
Xylenes, Total	3.0	0.099	2.973	0	102	80	120	0.131	20	
Surr: 4-Bromofluorobenzene	1.1		0.9911		114	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

- 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

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

Client Name:	GHD Midland	Work Order Numb	er: 210	7397			RcptNo: 1	
Received By:	Cheyenne Cason	7/9/2021 7:15:00 AM	И		Chal			
Completed By:	Sean Livingston	7/9/2021 9:52:57 AM	М		Chenl	1	/	
Reviewed By:	JR719/21					-07	JSP-	
Chain of Cus	stody							
1. Is Chain of C	custody complete?		Yes	V	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
Log In								
	npt made to cool the samp	les?	Yes	~	No		NA 🗆	
4. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes	~	No		NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No			
6. Sufficient sam	nple volume for indicated te	est(s)?	Yes	<b>V</b>	No [			
7. Are samples (	(except VOA and ONG) pro	perly preserved?	Yes	<b>V</b>	No [			
8. Was preserva	ative added to bottles?		Yes		No [	<b>V</b>	NA 🗆	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		No [		NA 🗹	
10. Were any sar	mple containers received b	roken?	Yes		No	<b>V</b>	# of preserved	
and an in the American season and the season believed	ork match bottle labels? ancies on chain of custody	)	Yes	<b>V</b>	No [		bottles checked for pH:	2 unless noted)
12. Are matrices	correctly identified on Chair	n of Custody?	Yes	<b>V</b>	No [		Adjusted?	
3. Is it clear wha	t analyses were requested	?	Yes	~	No [		111	05 -10
	ing times able to be met? ustomer for authorization.)		Yes	<b>V</b>	No [		Checked by: 1	119
Special Handl	ling (if applicable)							
15. Was client no	otified of all discrepancies v	vith this order?	Yes		No		NA 🗸	
Person	Notified:	Date:				-		
By Who	om:	Via:	☐ eM	ail 🔲	Phone	Fax	☐ In Person	
Regard	ling:							
Client I	nstructions:							
16. Additional re	emarks:							
17. Cooler Infor Cooler No	Temp °C Condition 5.9 Good	Seal Intact Seal No	Seal D	ate	Signed B	Ву		
2	4.8 Good							

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 15, 2021

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates As Fee Battery OrderNo.: 2107396

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/9/2021 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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** 

#### **Analytical Report**

Lab Order: **2107396**Date Reported: **7/15/2021** 

Hall Environmental Analysis Laboratory, Inc.

**Lab Order:** 2107396

**Project:** Yates As Fee Battery

GHD Midland

**Lab ID:** 2107396-001 **Collection Date:** 7/8/2021 7:20:00 AM

Client Sample ID: TP23-S Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: <b>VP</b>
Chloride	ND	61	mg/Kg	20	7/14/2021 4:24:23 AM	1 61269
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analy	st: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/13/2021 10:42:45 P	M 61232
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/13/2021 10:42:45 P	M 61232
Surr: DNOP	84.3	70-130	%Rec	1	7/13/2021 10:42:45 P	M 61232
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2021 1:07:25 PM	1 61219
Surr: BFB	97.6	70-130	%Rec	1	7/12/2021 1:07:25 PM	1 61219
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2021 1:07:25 PM	1 61219
Toluene	ND	0.048	mg/Kg	1	7/12/2021 1:07:25 PM	61219
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2021 1:07:25 PM	61219
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2021 1:07:25 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/12/2021 1:07:25 PM	1 61219

**Lab ID:** 2107396-002 **Collection Date:** 7/8/2021 7:25:00 AM

Client Sample ID: TP23-2 Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Ba	tch ID
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	ND	60	mg/Kg	20	7/14/2021 4:36:47 AM	61269
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/13/2021 12:16:45 PM	61232
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/13/2021 12:16:45 PM	61232
Surr: DNOP	74.3	70-130	%Rec	1	7/13/2021 12:16:45 PM	61232
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2021 1:31:09 PM	61219
Surr: BFB	97.7	70-130	%Rec	1	7/12/2021 1:31:09 PM	61219
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2021 1:31:09 PM	61219
Toluene	ND	0.050	mg/Kg	1	7/12/2021 1:31:09 PM	61219
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2021 1:31:09 PM	61219
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2021 1:31:09 PM	61219
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/12/2021 1:31:09 PM	61219

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 1 of 6

Lab Order: 2107396

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/15/2021

CLIENT: GHD Midland Lab Order: 2107396

**Project:** Yates As Fee Battery

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 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107396** 

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: MB-61269 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61269 RunNo: 79769

Prep Date: 7/13/2021 Analysis Date: 7/14/2021 SeqNo: 2806234 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61269 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61269 RunNo: 79769

Prep Date: 7/13/2021 Analysis Date: 7/14/2021 SeqNo: 2806235 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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 Quantitative 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 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107396** 

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: MB-61232	SampT	ype: <b>ME</b>	BLK	Tes	tCode: <b>El</b>	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	1D: <b>61</b> 2	232	F	RunNo: <b>7</b> 9	9755				
Prep Date: <b>7/12/2021</b>	Analysis D	ate: <b>7/</b>	13/2021	8	SeqNo: 2	805596	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	9.0		10.00		89.8	70	130			

Sample ID: LCS-61232	SampType: <b>LCS</b>			TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: <b>61</b> 2	232	R	RunNo: <b>7</b> 9	9755						
Prep Date: 7/12/2021	Analysis D	ate: <b>7/</b>	13/2021	S	SeqNo: <b>2805597</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	68.9	141					
Surr: DNOP	4.6		5.000		91.7	70	130					

#### Qualifiers:

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

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

Page 4 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107396** 

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: mb-61219 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PRS Ratch ID: 61219 RunNo: 79735

Client ID: PBS Batch ID: 61219 RunNo: 79735

Prep Date: 7/9/2021 Analysis Date: 7/12/2021 SeqNo: 2804597 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 960
 1000
 95.6
 70
 130

Sample ID: Ics-61219 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61219 RunNo: 79735

Prep Date: 7/9/2021 Analysis Date: 7/12/2021 SeqNo: 2804598 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 93.5 78.6 131 Surr: BFB 1100 1000 108 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 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2107396** 

15-Jul-21

Client: GHD Midland
Project: Yates As Fee Battery

Sample ID: mb-61219	Samp1	SampType: <b>MBLK</b>			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: <b>61219</b> RunNo: <b>79735</b>				9735	35					
Prep Date: <b>7/9/2021</b>	Analysis [	Date: <b>7/</b>	12/2021	8	SeqNo: 2	804627	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130				

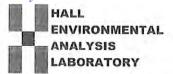
Sample ID: LCS-61219	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	219	RunNo: <b>79735</b>								
Prep Date: 7/9/2021	Analysis Date: 7/12/2021			8	SeqNo: 2	804628	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		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

- 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 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: GHD Midland	Work Order Nur	nber: 210	7396		RcptN	o: 1
Received By: Cheyenne Cason	7/9/2021 7:15:00	АМ		Chul	Los	
Completed By: Sean Livingston	7/9/2021 9:49:10	АМ		5	Long	
Reviewed By: SPA 7,9,7	1					
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No [	Not Present	
2. How was the sample delivered?		Cour	rier			
Log In						
3. Was an attempt made to cool the samp	oles?	Yes	<b>V</b>	No [	□ NA □	
4. Were all samples received at a tempera	ature of >0° C to 6.0°C	Yes	<b>V</b>	No [	□ NA □	
5. Sample(s) in proper container(s)?		Yes	<b>V</b>	No [	I	
6. Sufficient sample volume for indicated t	est(s)?	Yes	<b>V</b>	No [	]	
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes	<b>V</b>	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 🗹	
0. Were any sample containers received b	proken?	Yes		No 💆	# of preserved	
11. Does paperwork match bottle labels?		Yes		No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody	()	res	•	NO L		or >12 unless noted)
2. Are matrices correctly identified on Cha		Yes	<b>V</b>	No 🗆	Adjusted?	
3. Is it clear what analyses were requested	1?	Yes	V	No [		
<ol><li>Were all holding times able to be met? (If no, notify customer for authorization.)</li></ol>		Yes	<b>V</b>	No [	Checked by:	JR719/21
Special Handling (if applicable)						
15. Was client notified of all discrepancies	with this order?	Yes		No [	NA 🗹	
Person Notified:	Date	e:			-	
By Whom:	Via:	□ еМа	ail 🔲	Phone F	ax In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
Cooler No Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed By		
1 5.9 Good						

Received by OCD: 5/17/2022 4	34:03 PM		Page 138 of 527
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals ACRA 8 Metals RCRA 8 Metals	N 8	Time: Relinquished by:    Received by: Via: Date Time Remarks: Received by: Via: Date Time Remarks: Received by: Via: Date Time Relinquished by:   Received by: Via: Date Time   Received by:   Company   1/4/21   Color   Col
Turn-Around Time:  A Standard	Project Manager:    Project Manager:   Heskell   Sampler:   Sample	700	Received by: Via: Date Time Relations of this possible to other accredited laboratories. This serves as notice of this poss
Chain-of-Custody Record  Client: AHD  Mailing Address:  Mailing Address:  Phone #: (SS) 371 - 42/8	email or Fax#: Ref. Hele Mame  OA/OC Package.	DO CRES & TP28-5 DO CRES X TP23-2	Date: Time: Relinquished by:  Date: Time: Relinquished by:  (1) (1) (1) (2) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1



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

March 15, 2022

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

FAX

RE: Yates AS FEE Battery OrderNo.: 2203658

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2203658

Date Reported: 3/15/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-8

 Project:
 Yates AS FEE Battery
 Collection Date: 3/10/2022 9:00:00 AM

 Lab ID:
 2203658-001
 Matrix: MEOH (SOIL)
 Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	420	60		mg/Kg	20	3/11/2022 11:33:17 AM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	3/11/2022 11:19:43 AM	66112
Motor Oil Range Organics (MRO)	540	500		mg/Kg	10	3/11/2022 11:19:43 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 11:19:43 AM	66112
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	310	13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Surr: BFB	432	70-130	S	%Rec	5	3/11/2022 12:14:00 PM	66069
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	1.2	0.063		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Toluene	ND	0.13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Ethylbenzene	7.9	0.13		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Xylenes, Total	17	0.25		mg/Kg	5	3/11/2022 12:14:00 PM	66069
Surr: 4-Bromofluorobenzene	213	70-130	S	%Rec	5	3/11/2022 12:14:00 PM	66069

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

Qualifiers:

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

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# Analytical Report Lab Order 2203658

Date Reported: 3/15/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-10

 Project:
 Yates AS FEE Battery
 Collection Date: 3/10/2022 9:05:00 AM

 Lab ID:
 2203658-002
 Matrix: MEOH (SOIL)
 Received Date: 3/11/2022 8:00:00 AM

Result **POL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 450 61 mg/Kg 20 3/11/2022 11:45:39 AM 66119 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 2900 94 mg/Kg 3/11/2022 10:25:15 AM 66112 Motor Oil Range Organics (MRO) 1300 470 3/11/2022 10:25:15 AM 66112 mg/Kg Surr: DNOP 51.1-141 3/11/2022 10:25:15 AM 66112 0 S %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 3/11/2022 12:34:00 PM 66069 Gasoline Range Organics (GRO) 350 5 17 mg/Kg Surr: BFB 516 70-130 S %Rec 3/11/2022 12:34:00 PM 66069 **EPA METHOD 8021B: VOLATILES** Analyst: RAA 0.087 3/11/2022 12:34:00 PM 66069 Benzene 25 mg/Kg 5 Toluene 0.23 0.17 mg/Kg 3/11/2022 12:34:00 PM 66069 Ethylbenzene 9.8 0.17 mg/Kg 5 3/11/2022 12:34:00 PM 66069 Xylenes, Total 21 0.35 mg/Kg 5 3/11/2022 12:34:00 PM 66069 Surr: 4-Bromofluorobenzene 193 70-130 3/11/2022 12:34:00 PM 66069 S %Rec

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

Qualifiers:

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

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Lab Order **2203658**Date Reported: **3/15/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-12

Project: Yates AS FEE Battery Collection Date: 3/10/2022 9:10:00 AM

**Lab ID:** 2203658-003 **Matrix:** MEOH (SOIL) **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1100	60		mg/Kg	20	3/11/2022 11:57:59 AM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: JME
Diesel Range Organics (DRO)	3700	94		mg/Kg	10	3/11/2022 10:35:59 AM	66112
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	3/11/2022 10:35:59 AM	66112
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 10:35:59 AM	66112
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	540	19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Surr: BFB	379	70-130	S	%Rec	5	3/11/2022 12:54:00 PM	66069
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	3.5	0.096		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Toluene	ND	0.19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Ethylbenzene	11	0.19		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Xylenes, Total	21	0.38		mg/Kg	5	3/11/2022 12:54:00 PM	66069
Surr: 4-Bromofluorobenzene	206	70-130	S	%Rec	5	3/11/2022 12:54:00 PM	66069

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

Qualifiers:

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

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Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2203658

Date Reported: 3/15/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-14

 Project:
 Yates AS FEE Battery
 Collection Date: 3/10/2022 9:15:00 AM

 Lab ID:
 2203658-004
 Matrix: MEOH (SOIL)
 Received Date: 3/11/2022 8:00:00 AM

Result **POL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 1400 60 mg/Kg 20 3/11/2022 12:10:19 PM 66119 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 810 90 mg/Kg 3/11/2022 10:46:41 AM 66112 Motor Oil Range Organics (MRO) 470 450 3/11/2022 10:46:41 AM 66112 mg/Kg Surr: DNOP 3/11/2022 10:46:41 AM 66112 0 51.1-141 S %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 3/11/2022 1:13:00 PM Gasoline Range Organics (GRO) 67 20 5 66069 mg/Kg Surr: BFB 209 70-130 S %Rec 3/11/2022 1:13:00 PM 66069 **EPA METHOD 8021B: VOLATILES** Analyst: RAA 0.35 3/11/2022 1:13:00 PM 66069 Benzene 0.10 mg/Kg 5 Toluene ND 0.20 mg/Kg 3/11/2022 1:13:00 PM 66069 Ethylbenzene 2.6 0.20 mg/Kg 5 3/11/2022 1:13:00 PM 66069

1.3

115

0.40

70-130

mg/Kg

%Rec

5

3/11/2022 1:13:00 PM

3/11/2022 1:13:00 PM

66069

66069

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

Qualifiers:

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

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# Analytical Report Lab Order 2203658

Date Reported: 3/15/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-16

**Project:** Yates AS FEE Battery **Collection Date:** 3/10/2022 9:20:00 AM

**Lab ID:** 2203658-005 **Matrix:** MEOH (SOIL) **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	1300	60		mg/Kg	20	3/11/2022 12:47:21 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	JME
Diesel Range Organics (DRO)	990	49		mg/Kg	5	3/11/2022 11:20:26 AM	66112
Motor Oil Range Organics (MRO)	340	250		mg/Kg	5	3/11/2022 11:20:26 AM	66112
Surr: DNOP	66.8	51.1-141		%Rec	5	3/11/2022 11:20:26 AM	66112
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	72	19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Surr: BFB	269	70-130	S	%Rec	5	3/11/2022 1:33:00 PM	66069
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.097		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Toluene	ND	0.19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Ethylbenzene	1.6	0.19		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Xylenes, Total	0.81	0.39		mg/Kg	5	3/11/2022 1:33:00 PM	66069
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	5	3/11/2022 1:33:00 PM	66069

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

Qualifiers:

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

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Date Reported: 3/15/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-18

 Project:
 Yates AS FEE Battery
 Collection Date: 3/10/2022 9:25:00 AM

 Lab ID:
 2203658-006
 Matrix: MEOH (SOIL)
 Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1200	60		mg/Kg	20	3/11/2022 12:59:42 PM	66119
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: JME
Diesel Range Organics (DRO)	300	9.7		mg/Kg	1	3/11/2022 9:42:09 AM	66112
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	3/11/2022 9:42:09 AM	66112
Surr: DNOP	112	51.1-141		%Rec	1	3/11/2022 9:42:09 AM	66112
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Surr: BFB	133	70-130	S	%Rec	5	3/11/2022 1:53:00 PM	66069
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.083		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Toluene	ND	0.17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Ethylbenzene	ND	0.17		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Xylenes, Total	ND	0.33		mg/Kg	5	3/11/2022 1:53:00 PM	66069
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	5	3/11/2022 1:53:00 PM	66069

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

Qualifiers:

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

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Date Reported: 3/15/2022

3/11/2022 2:52:00 PM

66069

66069

66069

66069

66069

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP24-20

 Project:
 Yates AS FEE Battery
 Collection Date: 3/10/2022 9:30:00 AM

 Lab ID:
 2203658-007
 Matrix: MEOH (SOIL)
 Received Date: 3/11/2022 8:00:00 AM

Result **POL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 1200 60 mg/Kg 20 3/11/2022 1:12:03 PM 66119 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 530 50 mg/Kg 5 3/11/2022 11:31:06 AM 66112 Motor Oil Range Organics (MRO) 280 250 5 3/11/2022 11:31:06 AM 66112 mg/Kg Surr: DNOP 88.9 %Rec 3/11/2022 11:31:06 AM 66112 51.1-141 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 3/11/2022 2:52:00 PM Gasoline Range Organics (GRO) 20 5 66069 19 mg/Kg Surr: BFB 151 70-130 S %Rec 3/11/2022 2:52:00 PM 66069 **EPA METHOD 8021B: VOLATILES** Analyst: RAA

ND

ND

0.39

ND

98.7

0.094

0.19

0.19

0.38

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

5

5

5

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203658** *15-Mar-22* 

Client: GHD Midland

**Project:** Yates AS FEE Battery

Sample ID: MB-66119 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66119 RunNo: 86446

Prep Date: 3/11/2022 Analysis Date: 3/11/2022 SeqNo: 3049910 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66119 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66119 RunNo: 86446

Prep Date: 3/11/2022 Analysis Date: 3/11/2022 SeqNo: 3049911 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203658** 

15-Mar-22

**Client:** GHD Midland

**Project:** Yates AS FEE Battery

Sample ID: MB-66112 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66112 RunNo: 86399

Prep Date: 3/11/2022 Analysis Date: 3/11/2022 SeqNo: 3047706 Units: mg/Kg

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 8.1 10.00 81.4 51.1 141

Sample ID: LCS-66112 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66112 RunNo: 86399

4.0

Prep Date: 3/11/2022 Analysis Date: 3/11/2022 SeqNo: 3047776 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 44 10 50.00 88.9 68.9 135

79.5

51.1

141

#### Qualifiers:

Surr: DNOP

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203658** 

15-Mar-22

**Client:** GHD Midland

**Project:** Yates AS FEE Battery

Sample ID: Ics-66069 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66069 RunNo: 86409

Prep Date: 3/9/2022 Analysis Date: 3/11/2022 SeqNo: 3048222 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 30 5.0 25.00 118 78.6 131 Surr: BFB 2300 1000 229 130 S

Sample ID: mb-66069 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66069 RunNo: 86409

Prep Date: 3/9/2022 Analysis Date: 3/11/2022 SeqNo: 3048223 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 70 130

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203658** 

15-Mar-22

Client: GHD Midland

**Project:** Yates AS FEE Battery

Sample ID: Ics-66069 Client ID: LCSS	•	Type: <b>LC</b>			tCode: El		8021B: Vola	iles		
Prep Date: 3/9/2022	Analysis D			-	SeqNo: 3		Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.9	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: mb-66069	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: <b>66</b>	069	F	RunNo: 8	6409				
Prep Date: 3/9/2022	Analysis [	Date: <b>3/</b>	11/2022	8	SeqNo: 3	048230	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Client Name:	GHD Midland	Work Order Num	ber: 2203658		RcptNo: 1	
Received By:	Sean Livingston	3/11/2022 8:00:00	АМ	Sil	30/-	
Completed By:	Sean Livingston	3/11/2022 8:20:07	AM	S-L	m _/	
Reviewed By:	The	3/11/2			2	_
Chain of Cus	stod <u>y</u>		6			
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
3. Was an atten	npt made to cool the sam	oles?	Yes 🗸	No 🗌	NA 🗆	
4. Were all sam	ples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	nple volume for indicated t	est(s)?	Yes 🗸	No 🗌		
7. Are samples (	except VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗆		
8. Was preserva	tive added to bottles?		Yes	No 🗸	NA 🗆	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗆	NA 🗹	/
10. Were any sar	mple containers received	oroken?	Yes	No 🗹	# of preserved	_/_
	ork match bottle labels? ancies on chain of custod	v)	Yes 🗸	No 🗆	bottles checked for pH:	2 unless noted)
	correctly identified on Cha	Y'	Yes 🗸	No 🗆	Adjusted?	a loue en manery
3. Is it clear wha	t analyses were requested	1?	Yes 🗸	No 🗆		
	ng times able to be met? ustomer for authorization.		Yes 🔽	No 🗆	Checked by:	~ Blulzz
	ing (if applicable)					
	etified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date	1			
By Who	om:	Via:	eMail F	Phone  Fax	☐ In Person	
Regardi	ing:					
Client Ir	nstructions:					
16. Additional rea	marks:					
17. Cooler Infor	mation					
Cooler No 1	Temp °C Condition 2.4 Good	Seal Intact Seal No	Seal Date	Signed By		

Client: GHO	O	nain	-of-C	Chain-of-Custody Record	Turn-Around Time:	l Time:				1						
Project Name:   Project Name   Project Manager:   Proj	Client: (	문			Standard		in Same day			ALL	NEW S	VIR	ZO	MEN	TAL	
Matrix   Sample Name   Project #:   Project #:   Project #:   Project #:   Project #:   Project #:   Project Manager:   Proje					Project Nam		×					ה מ		KA	ORY	
Container   Cont	Mailing A	Address	16		1 Yorts AS	60	F	490	w Hawkin	ww.hal	enviror	menta	l.com	7100		
	324 W. I	Nain St	Suite 10	08, Artesia NM 88210	Project #:			1	505-345	3075	70	anhior	O IMINI O	201		
Decky Haskell@glod.com	Phone #		(505)37	7-4218	[172840]						nalvsis	Regin	150	1		
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Date   Compliance   Sampler: Zach Comino   Contest   C	QA/QC P	ackage: ard		☐ Level 4 (Full Validation)	Becky Haske Tom Larson	) =		) / MRC		SINIS	OS '*Oc					
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Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

March 25, 2022

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

FAX:

RE: Yates AT Fee Battery OrderNo.: 2203746

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-1

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:00:00 AM

 Lab ID:
 2203746-001
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	430	59	mg/Kg	20	3/20/2022 3:44:20 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/17/2022 8:20:39 PM	66203
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/17/2022 8:20:39 PM	66203
Surr: DNOP	94.8	51.1-141	%Rec	1	3/17/2022 8:20:39 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2022 5:57:16 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 5:57:16 PM	66178
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 5:57:16 PM	66178
Toluene	ND	0.049	mg/Kg	1	3/16/2022 5:57:16 PM	66178
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2022 5:57:16 PM	66178
Xylenes, Total	ND	0.098	mg/Kg	1	3/16/2022 5:57:16 PM	66178
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	3/16/2022 5:57:16 PM	66178

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

Qualifiers:

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

Page 1 of 30

Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-2

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:05:00 AM

 Lab ID:
 2203746-002
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	84	60	mg/Kg	20	3/20/2022 3:56:44 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	3/17/2022 8:31:06 PM	66203
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/17/2022 8:31:06 PM	66203
Surr: DNOP	67.6	51.1-141	%Rec	1	3/17/2022 8:31:06 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/16/2022 6:20:41 PM	66178
Surr: BFB	104	70-130	%Rec	1	3/16/2022 6:20:41 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/16/2022 6:20:41 PM	66178
Toluene	ND	0.047	mg/Kg	1	3/16/2022 6:20:41 PM	66178
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2022 6:20:41 PM	66178
Xylenes, Total	ND	0.093	mg/Kg	1	3/16/2022 6:20:41 PM	66178
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	3/16/2022 6:20:41 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-3

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:10:00 AM

 Lab ID:
 2203746-003
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	480	60	mg/Kg	20	3/20/2022 4:09:09 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/17/2022 8:41:33 PM	66203
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 8:41:33 PM	66203
Surr: DNOP	71.2	51.1-141	%Rec	1	3/17/2022 8:41:33 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/16/2022 6:44:16 PM	66178
Surr: BFB	108	70-130	%Rec	1	3/16/2022 6:44:16 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/16/2022 6:44:16 PM	66178
Toluene	ND	0.047	mg/Kg	1	3/16/2022 6:44:16 PM	66178
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2022 6:44:16 PM	66178
Xylenes, Total	ND	0.093	mg/Kg	1	3/16/2022 6:44:16 PM	66178
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	3/16/2022 6:44:16 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-4

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:15:00 AM

 Lab ID:
 2203746-004
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	270	60	mg/Kg	20	3/20/2022 4:21:34 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/17/2022 8:52:01 PM	66203
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2022 8:52:01 PM	66203
Surr: DNOP	79.2	51.1-141	%Rec	1	3/17/2022 8:52:01 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/16/2022 7:07:55 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 7:07:55 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/16/2022 7:07:55 PM	66178
Toluene	ND	0.047	mg/Kg	1	3/16/2022 7:07:55 PM	66178
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2022 7:07:55 PM	66178
Xylenes, Total	ND	0.093	mg/Kg	1	3/16/2022 7:07:55 PM	66178
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	3/16/2022 7:07:55 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-5

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:20:00 AM

 Lab ID:
 2203746-005
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	110	60	mg/Kg	20	3/20/2022 4:33:59 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/18/2022 2:55:11 PM	66203
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2022 2:55:11 PM	66203
Surr: DNOP	90.8	51.1-141	%Rec	1	3/18/2022 2:55:11 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2022 7:31:25 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 7:31:25 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/16/2022 7:31:25 PM	66178
Toluene	ND	0.049	mg/Kg	1	3/16/2022 7:31:25 PM	66178
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2022 7:31:25 PM	66178
Xylenes, Total	ND	0.099	mg/Kg	1	3/16/2022 7:31:25 PM	66178
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	3/16/2022 7:31:25 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-6

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:25:00 AM

 Lab ID:
 2203746-006
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	530	60	mg/Kg	20	3/20/2022 5:11:12 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/17/2022 9:12:58 PM	66203
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/17/2022 9:12:58 PM	66203
Surr: DNOP	77.6	51.1-141	%Rec	1	3/17/2022 9:12:58 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/16/2022 8:42:13 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 8:42:13 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 8:42:13 PM	66178
Toluene	ND	0.048	mg/Kg	1	3/16/2022 8:42:13 PM	66178
Ethylbenzene	ND	0.048	mg/Kg	1	3/16/2022 8:42:13 PM	66178
Xylenes, Total	ND	0.096	mg/Kg	1	3/16/2022 8:42:13 PM	66178
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	3/16/2022 8:42:13 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-7

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:30:00 AM

 Lab ID:
 2203746-007
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	440	60	mg/Kg	20	3/20/2022 5:23:36 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2022 9:23:28 PM	66203
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 9:23:28 PM	66203
Surr: DNOP	79.4	51.1-141	%Rec	1	3/17/2022 9:23:28 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/16/2022 9:05:48 PM	66178
Surr: BFB	103	70-130	%Rec	1	3/16/2022 9:05:48 PM	66178
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 9:05:48 PM	66178
Toluene	ND	0.048	mg/Kg	1	3/16/2022 9:05:48 PM	66178
Ethylbenzene	ND	0.048	mg/Kg	1	3/16/2022 9:05:48 PM	66178
Xylenes, Total	ND	0.097	mg/Kg	1	3/16/2022 9:05:48 PM	66178
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	3/16/2022 9:05:48 PM	66178

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

Qualifiers:

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

Page 7 of 30

Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-8

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:35:00 AM

 Lab ID:
 2203746-008
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	1400	60	mg/Kg	20	3/20/2022 5:36:01 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	220	8.8	mg/Kg	1	3/17/2022 9:33:59 PM	66203
Motor Oil Range Organics (MRO)	100	44	mg/Kg	1	3/17/2022 9:33:59 PM	66203
Surr: DNOP	60.3	51.1-141	%Rec	1	3/17/2022 9:33:59 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/16/2022 9:29:24 PM	66178
Surr: BFB	103	70-130	%Rec	5	3/16/2022 9:29:24 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	3/16/2022 9:29:24 PM	66178
Toluene	ND	0.24	mg/Kg	5	3/16/2022 9:29:24 PM	66178
Ethylbenzene	ND	0.24	mg/Kg	5	3/16/2022 9:29:24 PM	66178
Xylenes, Total	ND	0.48	mg/Kg	5	3/16/2022 9:29:24 PM	66178
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	5	3/16/2022 9:29:24 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-9

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:40:00 AM

 Lab ID:
 2203746-009
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 2300 60 mg/Kg 20 3/20/2022 5:48:26 PM 66279 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 21 9.8 mg/Kg 3/17/2022 9:44:29 PM 66203 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/17/2022 9:44:29 PM 66203 Surr: DNOP 69.0 3/17/2022 9:44:29 PM 66203 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/16/2022 9:52:54 PM Gasoline Range Organics (GRO) ND 4.6 66178 mg/Kg 1 Surr: BFB 104 70-130 %Rec 3/16/2022 9:52:54 PM 66178 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 3/16/2022 9:52:54 PM 66178 mg/Kg 1 Toluene ND 0.046 mg/Kg 3/16/2022 9:52:54 PM 66178 Ethylbenzene ND 0.046 mg/Kg 1 3/16/2022 9:52:54 PM 66178 Xylenes, Total ND 0.091 mg/Kg 3/16/2022 9:52:54 PM 66178 Surr: 4-Bromofluorobenzene 95.5 70-130 %Rec 3/16/2022 9:52:54 PM 66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-10

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:45:00 AM

 Lab ID:
 2203746-010
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1700	60	mg/Kg	20	3/20/2022 6:00:51 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/17/2022 9:55:01 PM	66203
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/17/2022 9:55:01 PM	66203
Surr: DNOP	84.4	51.1-141	%Rec	1	3/17/2022 9:55:01 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/16/2022 10:16:27 PM	66178
Surr: BFB	105	70-130	%Rec	1	3/16/2022 10:16:27 PM	66178
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 10:16:27 PM	66178
Toluene	ND	0.048	mg/Kg	1	3/16/2022 10:16:27 PM	66178
Ethylbenzene	ND	0.048	mg/Kg	1	3/16/2022 10:16:27 PM	66178
Xylenes, Total	ND	0.095	mg/Kg	1	3/16/2022 10:16:27 PM	66178
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	3/16/2022 10:16:27 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-11

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:50:00 AM

 Lab ID:
 2203746-011
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1300	60	mg/Kg	20	3/20/2022 6:13:16 PM	66279
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2022 10:05:35 PM	66203
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 10:05:35 PM	66203
Surr: DNOP	58.0	51.1-141	%Rec	1	3/17/2022 10:05:35 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2022 10:40:02 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 10:40:02 PM	66178
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 10:40:02 PM	66178
Toluene	ND	0.049	mg/Kg	1	3/16/2022 10:40:02 PM	66178
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2022 10:40:02 PM	66178
Xylenes, Total	ND	0.098	mg/Kg	1	3/16/2022 10:40:02 PM	66178
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	3/16/2022 10:40:02 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-12

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 8:55:00 AM

 Lab ID:
 2203746-012
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	2200	59	mg/Kg	20	3/21/2022 11:53:12 AM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/17/2022 10:16:15 PM	66203
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2022 10:16:15 PM	66203
Surr: DNOP	53.2	51.1-141	%Rec	1	3/17/2022 10:16:15 PM	66203
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/16/2022 11:03:27 PM	66178
Surr: BFB	106	70-130	%Rec	1	3/16/2022 11:03:27 PM	66178
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2022 11:03:27 PM	66178
Toluene	ND	0.048	mg/Kg	1	3/16/2022 11:03:27 PM	66178
Ethylbenzene	ND	0.048	mg/Kg	1	3/16/2022 11:03:27 PM	66178
Xylenes, Total	ND	0.097	mg/Kg	1	3/16/2022 11:03:27 PM	66178
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	3/16/2022 11:03:27 PM	66178

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

Qualifiers:

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

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Date Reported: 3/25/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-13

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:00:00 AM

 Lab ID:
 2203746-013
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 3200 150 mg/Kg 50 3/23/2022 10:00:39 AM 66288 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 3/18/2022 12:56:57 AM 66212 Motor Oil Range Organics (MRO) ND 3/18/2022 12:56:57 AM 66212 48 mg/Kg 1 Surr: DNOP 75.1 3/18/2022 12:56:57 AM 66212 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 3/16/2022 6:04:00 PM Gasoline Range Organics (GRO) ND 4.9 66188 mg/Kg 1 Surr: BFB 100 %Rec 3/16/2022 6:04:00 PM 66188 70-130 **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 3/16/2022 6:04:00 PM 66188 mg/Kg 1 Toluene ND 0.049 mg/Kg 3/16/2022 6:04:00 PM 66188 Ethylbenzene ND 0.049 mg/Kg 1 3/16/2022 6:04:00 PM 66188 Xylenes, Total ND 0.097 mg/Kg 3/16/2022 6:04:00 PM 66188 Surr: 4-Bromofluorobenzene 85.6 70-130 %Rec 66188 3/16/2022 6:04:00 PM

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-14

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:05:00 AM

 Lab ID:
 2203746-014
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1800	59	mg/Kg	20	3/21/2022 12:42:50 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/18/2022 1:07:38 AM	66212
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/18/2022 1:07:38 AM	66212
Surr: DNOP	83.1	51.1-141	%Rec	1	3/18/2022 1:07:38 AM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/16/2022 8:02:00 PM	66188
Surr: BFB	108	70-130	%Rec	1	3/16/2022 8:02:00 PM	66188
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	3/16/2022 8:02:00 PM	66188
Toluene	ND	0.050	mg/Kg	1	3/16/2022 8:02:00 PM	66188
Ethylbenzene	ND	0.050	mg/Kg	1	3/16/2022 8:02:00 PM	66188
Xylenes, Total	ND	0.099	mg/Kg	1	3/16/2022 8:02:00 PM	66188
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	3/16/2022 8:02:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-15

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:10:00 AM

 Lab ID:
 2203746-015
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	830	60	mg/Kg	20	3/21/2022 12:55:14 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	36	9.2	mg/Kg	1	3/19/2022 12:20:05 AM	66212
Motor Oil Range Organics (MRO)	86	46	mg/Kg	1	3/19/2022 12:20:05 AM	66212
Surr: DNOP	136	51.1-141	%Rec	1	3/19/2022 12:20:05 AM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/16/2022 9:01:00 PM	66188
Surr: BFB	101	70-130	%Rec	1	3/16/2022 9:01:00 PM	66188
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	3/16/2022 9:01:00 PM	66188
Toluene	ND	0.046	mg/Kg	1	3/16/2022 9:01:00 PM	66188
Ethylbenzene	ND	0.046	mg/Kg	1	3/16/2022 9:01:00 PM	66188
Xylenes, Total	ND	0.093	mg/Kg	1	3/16/2022 9:01:00 PM	66188
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	3/16/2022 9:01:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-16

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:15:00 AM

 Lab ID:
 2203746-016
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 3300 150 mg/Kg 3/23/2022 10:13:04 AM 66288 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 3/18/2022 1:29:01 AM 66212 Motor Oil Range Organics (MRO) ND 66212 48 mg/Kg 1 3/18/2022 1:29:01 AM Surr: DNOP 3/18/2022 1:29:01 AM 66212 77.2 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA ND 3/16/2022 9:21:00 PM Gasoline Range Organics (GRO) 5.0 66188 mg/Kg 1 Surr: BFB 102 70-130 %Rec 3/16/2022 9:21:00 PM 66188 **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 3/16/2022 9:21:00 PM 66188 mg/Kg 1 Toluene ND 0.050 mg/Kg 3/16/2022 9:21:00 PM 66188 Ethylbenzene ND 0.050 mg/Kg 1 3/16/2022 9:21:00 PM 66188 Xylenes, Total ND 0.10 mg/Kg 3/16/2022 9:21:00 PM 66188 Surr: 4-Bromofluorobenzene 86.0 70-130 66188 %Rec 3/16/2022 9:21:00 PM

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

Qualifiers:

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

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Date Reported: 3/25/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-17

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:20:00 AM

 Lab ID:
 2203746-017
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 6200 300 mg/Kg 100 3/23/2022 10:25:29 AM 66288 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 46 9.4 mg/Kg 3/18/2022 1:39:38 AM 66212 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/18/2022 1:39:38 AM 66212 Surr: DNOP 85.6 3/18/2022 1:39:38 AM 66212 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 3/16/2022 9:40:00 PM Gasoline Range Organics (GRO) ND 5.0 66188 mg/Kg 1 Surr: BFB 104 70-130 %Rec 3/16/2022 9:40:00 PM 66188 **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 3/16/2022 9:40:00 PM 66188 mg/Kg 1 Toluene ND 0.050 mg/Kg 3/16/2022 9:40:00 PM 66188 Ethylbenzene ND 0.050 mg/Kg 1 3/16/2022 9:40:00 PM 66188 Xylenes, Total ND 0.10 mg/Kg 3/16/2022 9:40:00 PM 66188 Surr: 4-Bromofluorobenzene 86.2 70-130 %Rec 66188 3/16/2022 9:40:00 PM

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-18

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:25:00 AM

 Lab ID:
 2203746-018
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1000	60	mg/Kg	20	3/21/2022 1:57:17 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	41	9.5	mg/Kg	1	3/18/2022 1:50:16 AM	66212
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2022 1:50:16 AM	66212
Surr: DNOP	71.6	51.1-141	%Rec	1	3/18/2022 1:50:16 AM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2022 10:00:00 PM	66188
Surr: BFB	102	70-130	%Rec	1	3/16/2022 10:00:00 PM	66188
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	3/16/2022 10:00:00 PM	66188
Toluene	ND	0.049	mg/Kg	1	3/16/2022 10:00:00 PM	66188
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2022 10:00:00 PM	66188
Xylenes, Total	ND	0.098	mg/Kg	1	3/16/2022 10:00:00 PM	66188
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	3/16/2022 10:00:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-19

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:30:00 AM

 Lab ID:
 2203746-019
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1100	59	mg/Kg	20	3/21/2022 2:09:41 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	55	9.8	mg/Kg	1	3/18/2022 2:11:23 AM	66212
Motor Oil Range Organics (MRO)	58	49	mg/Kg	1	3/18/2022 2:11:23 AM	66212
Surr: DNOP	79.3	51.1-141	%Rec	1	3/18/2022 2:11:23 AM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	3/16/2022 10:20:00 PM	66188
Surr: BFB	109	70-130	%Rec	5	3/16/2022 10:20:00 PM	66188
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.12	mg/Kg	5	3/16/2022 10:20:00 PM	66188
Toluene	ND	0.25	mg/Kg	5	3/16/2022 10:20:00 PM	66188
Ethylbenzene	ND	0.25	mg/Kg	5	3/16/2022 10:20:00 PM	66188
Xylenes, Total	ND	0.49	mg/Kg	5	3/16/2022 10:20:00 PM	66188
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	5	3/16/2022 10:20:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-20

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:35:00 AM

 Lab ID:
 2203746-020
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1800	60	mg/Kg	20	3/21/2022 2:22:06 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	130	9.5	mg/Kg	1	3/18/2022 2:32:22 AM	66212
Motor Oil Range Organics (MRO)	90	47	mg/Kg	1	3/18/2022 2:32:22 AM	66212
Surr: DNOP	133	51.1-141	%Rec	1	3/18/2022 2:32:22 AM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/16/2022 10:59:00 PM	66188
Surr: BFB	105	70-130	%Rec	5	3/16/2022 10:59:00 PM	66188
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.12	mg/Kg	5	3/16/2022 10:59:00 PM	66188
Toluene	ND	0.24	mg/Kg	5	3/16/2022 10:59:00 PM	66188
Ethylbenzene	ND	0.24	mg/Kg	5	3/16/2022 10:59:00 PM	66188
Xylenes, Total	ND	0.48	mg/Kg	5	3/16/2022 10:59:00 PM	66188
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	5	3/16/2022 10:59:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-21

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:40:00 AM

 Lab ID:
 2203746-021
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	600	60	mg/Kg	20	3/21/2022 2:34:30 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	49	9.9	mg/Kg	1	3/18/2022 11:59:05 PM	66212
Motor Oil Range Organics (MRO)	96	50	mg/Kg	1	3/18/2022 11:59:05 PM	66212
Surr: DNOP	72.1	51.1-141	%Rec	1	3/18/2022 11:59:05 PM	66212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/16/2022 11:37:00 PM	66188
Surr: BFB	107	70-130	%Rec	1	3/16/2022 11:37:00 PM	66188
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	3/16/2022 11:37:00 PM	66188
Toluene	ND	0.048	mg/Kg	1	3/16/2022 11:37:00 PM	66188
Ethylbenzene	ND	0.048	mg/Kg	1	3/16/2022 11:37:00 PM	66188
Xylenes, Total	ND	0.096	mg/Kg	1	3/16/2022 11:37:00 PM	66188
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	3/16/2022 11:37:00 PM	66188

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

Qualifiers:

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-22

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:45:00 AM

 Lab ID:
 2203746-022
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	760	60	mg/Kg	20	3/21/2022 2:46:55 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	14	9.7	mg/Kg	1	3/17/2022 10:43:09 AM	66213
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2022 10:43:09 AM	66213
Surr: DNOP	71.1	51.1-141	%Rec	1	3/17/2022 10:43:09 AM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2022 11:57:00 PM	66188
Surr: BFB	104	70-130	%Rec	1	3/16/2022 11:57:00 PM	66188
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	3/16/2022 11:57:00 PM	66188
Toluene	ND	0.049	mg/Kg	1	3/16/2022 11:57:00 PM	66188
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2022 11:57:00 PM	66188
Xylenes, Total	ND	0.097	mg/Kg	1	3/16/2022 11:57:00 PM	66188
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	3/16/2022 11:57:00 PM	66188

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

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Date Reported: 3/25/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-23

 Project:
 Yates AT Fee Battery
 Collection Date: 3/11/2022 9:50:00 AM

 Lab ID:
 2203746-023
 Matrix: SOIL
 Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1400	60	mg/Kg	20	3/21/2022 2:59:20 PM	66288
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	51	9.8	mg/Kg	1	3/17/2022 10:53:38 AM	66213
Motor Oil Range Organics (MRO)	57	49	mg/Kg	1	3/17/2022 10:53:38 AM	66213
Surr: DNOP	59.0	51.1-141	%Rec	1	3/17/2022 10:53:38 AM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/17/2022 12:17:00 AM	66188
Surr: BFB	106	70-130	%Rec	1	3/17/2022 12:17:00 AM	66188
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	3/17/2022 12:17:00 AM	66188
Toluene	ND	0.046	mg/Kg	1	3/17/2022 12:17:00 AM	66188
Ethylbenzene	ND	0.046	mg/Kg	1	3/17/2022 12:17:00 AM	66188
Xylenes, Total	ND	0.093	mg/Kg	1	3/17/2022 12:17:00 AM	66188
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	3/17/2022 12:17:00 AM	66188

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

25-Mar-22

2203746

WO#:

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: MB-66279 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66279 RunNo: 86610

Prep Date: 3/20/2022 Analysis Date: 3/20/2022 SeqNo: 3057325 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-66279 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66279 RunNo: 86610

Prep Date: 3/20/2022 Analysis Date: 3/20/2022 SeqNo: 3057326 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.0 90 110

Sample ID: MB-66288 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66288 RunNo: 86641

Prep Date: 3/21/2022 Analysis Date: 3/21/2022 SeqNo: 3058762 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66288 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66288 RunNo: 86641

Prep Date: 3/21/2022 Analysis Date: 3/21/2022 SeqNo: 3058763 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 90 110

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746** 

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: <b>2203746-022AMS</b>	SampT	ype: <b>MS</b>	3	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH-22	Batch	n ID: <b>66</b> 2	213	F	RunNo: 8	6542				
Prep Date: 3/16/2022	Analysis D	ate: 3/	17/2022	8	SeqNo: 3	055243	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.50	14.08	66.1	36.1	154			
Surr: DNOP	2.8		4.950		57.4	51.1	141			
Sample ID: 2202746-0224MSI	SamnTyne: MSD TestCode: EDA Method 8015M/D: Diesel Pange Organics									

Sample ID: 2203746-022AMS	Samp i	ype: IVIS	טפ	res	(Code: E	A Method	8015NI/D: DIE	sei Range	e Organics	
Client ID: BH-22	Batch	1D: <b>66</b>	213	F	RunNo: 8	6542				
Prep Date: 3/16/2022	Analysis D	ate: 3/	17/2022	S	SeqNo: 3	055244	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	49.07	14.08	75.0	36.1	154	8.31	33.9	
Surr: DNOP	3.6		4.907		73.9	51.1	141	0	0	

Sample ID: LCS-66203	SampT	ype: <b>LC</b>	:S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: <b>66</b> 2	203	F	RunNo: 86542							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			S	SeqNo: <b>3055280</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Analyte Diesel Range Organics (DRO)	Result 46	PQL 10	SPK value 50.00	SPK Ref Val	%REC 92.3	LowLimit 68.9	HighLimit 135	%RPD	RPDLimit	Qual		

Sample ID: LCS-66212	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: <b>66</b> 2	212	RunNo: <b>86542</b>							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			SeqNo: <b>3055281</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	68.9	135				
Surr: DNOP	3.9		5.000		77.5	51.1	141				

Sample ID: LCS-66213	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: <b>66</b> 2	213	R	RunNo: 80	6542				
Prep Date: 3/16/2022	Analysis Da	ate: <b>3/</b>	17/2022	S	SeqNo: <b>3055282</b>		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	68.9	135			
Surr: DNOP	4.4		5.000		88.4	51.1	141			

Sample ID: MB-66203	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 66203	RunNo: <b>86542</b>	
Prep Date: 3/16/2022	Analysis Date: 3/17/2	2022 SeqNo: 3055284 Units: mg/Kg	
Analyte	Result PQL SP	PK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	ual

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746 25-Mar-22** 

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: MB-66203	Samp1	Гуре: <b>МЕ</b>	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66203			F	RunNo: <b>86542</b>						
Prep Date: 3/16/2022	Analysis [	Date: <b>3/</b>	17/2022	8	SeqNo: 3	055284	Units: mg/Kg				
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	8.4		10.00		84.1	51.1	141				
Sample ID: <b>MB-66212</b>	Samp1	Гуре: <b>МЕ</b>	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batc	h ID: 66	212	RunNo: 86542							

Client ID: PBS	Batch	1D: <b>66</b>	212	F	RunNo: <b>86542</b>					
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			8	SeqNo: 3	055285	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	9.7		10.00		96.8	51.1	141			
0 1 15 225 2222										

Sample ID: <b>MB-66213</b>	SampT	ype: <b>M</b> E	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66213			F	RunNo: 8	6542						
Prep Date: 3/16/2022	Analysis D	Analysis Date: 3/17/2022			SeqNo: <b>3055286</b>			Units: mg/Kg				
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	8.9		10.00		88.7	51.1	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746** 

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: mb-66178 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66178 RunNo: 86522

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053232 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 70 130

Sample ID: Ics-66178 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66178 RunNo: 86522

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053234 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 105 78.6 131 Surr: BFB S 2200 1000 221 70 130

Sample ID: Ics-66188 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66188 RunNo: 86499

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053469 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 78.6 131 Surr: BFB 2300 1000 227 70 130 S

Sample ID: mb-66188 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS Batch ID: 66188 RunNo: 86499

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053470 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 1000
 1000
 103
 70
 130

Sample ID: 2203746-013ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH-13 Batch ID: 66188 RunNo: 86499

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053472 Units: mq/Kq

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 32 4.9 24.30 0 131 70 S 130 70 S Surr: BFB 2400 971.8 248 130

Sample ID: 2203746-013amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-13** Batch ID: **66188** RunNo: **86499** 

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053473 Units: mg/Kg

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

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746** 

25-Mar-22

Client: GHD Midland

**Project:** Yates AT Fee Battery

Sample ID: 2203746-013amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-13** Batch ID: **66188** RunNo: **86499** 

Prep Date: 3/15/2022 Analysis Date: 3/16/2022 SeqNo: 3053473 Units: mg/Kg

	•				-		•	•			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	33	4.9	24.44	0	136	70	130	4.81	20	S	
Surr: BFB	2600		977.5		261	70	130	0	0	S	

#### Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746** 

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: mb-66178	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>66</b> ′	178	R	RunNo: 8	6522				
Prep Date: 3/15/2022	Analysis D	)ate: <b>3/</b>	16/2022	S	SeqNo: 3	053274	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: LCS-66178	Samp1	Гуре: <b>LC</b>	S	Tes	tCode: <b>El</b>	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: <b>66</b> '	178	F	RunNo: 80	6522				
Prep Date: 3/15/2022	Analysis [	Date: 3/	16/2022	8	SeqNo: 30	053275	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: Ics-66188	s	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: LCSS	Batc	h ID: <b>66</b>	188	F	RunNo: 8	6499				
Prep Date: 3/15/2022	Analysis [	Date: <b>3/</b>	16/2022	8	SeqNo: 3	053507	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

Sample ID: mb-66188	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>66</b>	188	R	RunNo: 8	6499				
Prep Date: 3/15/2022	Analysis D	)ate: <b>3/</b>	16/2022	S	SeqNo: 3	053508	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

#### Qualifiers:

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

Page 29 of 30

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203746** 

25-Mar-22

Client: GHD Midland
Project: Yates AT Fee Battery

Sample ID: 2203746-014ams	SampT	уре: МS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH-14	Batch	n ID: <b>66</b> ′	188	F	RunNo: 8	6499				
Prep Date: 3/15/2022	Analysis D	ate: <b>3/</b>	16/2022	S	SeqNo: 3	053511	Units: mg/K	(g		
Analyte	Result	Result PQL SPK value			%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9901	0	111	68.8	120			
Toluene	1.1	0.050	0.9901	0	115	73.6	124			
Ethylbenzene	1.2	0.050	0.9901	0	117	72.7	129			
Xylenes, Total	3.5	0.099	2.970	0	117	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9901		92.0	70	130			

Sample ID: 2203746-014amsd	SampT	Гуре: <b>М</b> \$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH-14	Batch	h ID: <b>66</b>	188	F	RunNo: 8	6499				
Prep Date: 3/15/2022	22 Analysis Date: 3/16/2022				SeqNo: 3	053512	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9891	0	119	68.8	120	6.44	20	
Toluene	1.2	0.049	0.9891	0	123	73.6	124	7.08	20	
Ethylbenzene	1.2	0.049	0.9891	0	126	72.7	129	7.28	20	
Xylenes, Total	3.8	0.099	2.967	0	127	75.7	126	7.56	20	S
Surr: 4-Bromofluorobenzene	0.89		0.9891		89.6	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Client Name: GHD	Work Order Number:	220	3746			RcptNo: 1
Received By: Tracy Casarrubias	3/15/2022 7:30:00 AM					
Completed By: Tracy Casarrubias	3/15/2022 8:32:51 AM					
Reviewed By: WVG 3/15	ihz					
Chain of Custody						
1. Is Chain of Custody complete?		Yes	V	No		Not Present
2. How was the sample delivered?		Cou	rier			
Log In						
Was an attempt made to cool the samples	?	Yes	V	No		NA 🗆
4. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
6. Sufficient sample volume for indicated testi	(s)?	Yes	<b>V</b>	No		
<ol><li>Are samples (except VOA and ONG) prope</li></ol>	erly preserved?	Yes	<b>V</b>	No		
8. Was preservative added to bottles?		Yes		No	<b>v</b>	NA 🗆
9. Received at least 1 vial with headspace <1/	/4" for AQ VOA?	Yes		No		NA 🗹
<ol><li>Were any sample containers received brok</li></ol>	en?	Yes		No	V	# of managed
Does paperwork match bottle labels?     (Note discrepancies on chain of custody)		Yes	<b>V</b>	No		# of preserved bottles checked for pH:
Are matrices correctly identified on Chain or	f Custody2	Yes		No		Adjusted?
3. Is it clear what analyses were requested?		Yes		No		
Were all holding times able to be met?    (If no, notify customer for authorization.)			<b>✓</b>	No		Checked by: Come 3[15] W
pecial Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No		NA 🔽
Person Notified:	Date:	-	-		_	
By Whom:	Via:	eMa	ail 🔲	] Phone [	Fax	☐ In Person
Regarding:						
Client Instructions:						
6. Additional remarks:						
7. Cooler Information Cooler No Temp °C Condition S 1 0.1 Good Ye		al Da	ite	Signed E	Ву	

Turn-Around Time:	Standard & Rush S-A.		60100	-	Anal	<b>€</b>	S s.	Tom Larson	Sampler: Zach Comino NB's H	NON L	Ser. 1 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mineualing cr): O1-62 O1 % O1 WC	Container Preservative HEAL No. Type and # Type (Second Second Se	2.205十七 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	2 100	000	700	7000				* 500	200	500	010		Received by: Via: Date Time P	1000 1000 New Yell	ed by: Via) ccurr Date Time Mat	190 all isted above. 3/15/22 7:30 Direct Bill to EOG Chase Settle
Chain-of-Custody Record			324 W. Main St. Suite 108. Artesia NM 88210	(505)377_4018	000)017-4218	Becky. Haskell@ghd.com		☐ Level 4 (Full Validation)	_	□ Other			Matrix Sample Name	_	200	04-7	BM-3	BH-4	BM-5	8H-1	BM-7	B146.8	64-9	84-10	B(4-1)	BZ-Z	Relinquished by:	Mitchell Clemen Mitchell (Geran		Men
Chain-c	Client: GHD	Mailing Address:	324 W. Main St. S	Phone #:		-4	QA/QC Package:	□ Standard	 		□ EDD (Type)	-		0800	1	0000	0380	0815	0820	0.825	0380	0835	0840	20895	780	J 1880	Time:	1000	Time:	11422 1900 C

Client	Chair nt: GHD	n-of-C	Chain-of-Custody Record	Turn-Around Time:	nd Time:								0	2002		
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-				Project Name:		3		4	NA	LYS	SI	3	BOR	ANALYSIS LABORATOR	NRY	-3
Mail	Mailing Address:	SS:		Vates F	AT Fre	S. H. S.			www.hallenvironmental.com	allenvi	onme	ntal.c	шо			
324 /	W. Main S	St. Suite 1	324 W. Main St. Suite 108, Artesia NM 88210		)	V24 14.3	4901	Hawk	4901 Hawkins NE -	- Albı	Idnerd	ne' N	Albuquerque, NM 87109	6		, 1
Phone #:	e #:	(505)377-4218	7-4218	11228901			Tel.	505-34	Tel. 505-345-3975		Fax 505-345-4107	5-345	4107			
emai	email or Fax#:		Becky. Haskell@ghd.com	Project Manager	ager.					Analysis Request	is Re	duest				
QAVQ	QA/QC Package:			Becky Haskell			ROY			⁵OS		(Ju				
5	□ Standard		☐ Level 4 (Full Validation)	Tom Larson			W/		SWI	3 '*C		əsq	0			
Accre	Accreditation:	□ Az C	☐ Az Compliance	Sampler:	Zach Comino	OL.	ORC	(	S027	<sup>5</sup> b(		√∤ue	30			
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		81 b <sup>e</sup> H:801 .EX \	B (Me	үd sH 8 АЯ	F, Br	0 (26 20 (AC	iloO le	וסרומל			
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			The contracted data will be clearly notated to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the amendment	thacted to other acc	redited laboratories	s. This serves as notice of this p	ossibility. Any sub-	contracte	ed data w	be clear	v notate	on the	locitulous			
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 28, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates AS Fee Battery OrderNo.: 2203839

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 25 sample(s) on 3/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/28/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-24

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:00:00 AM

 Lab ID:
 2203839-001
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1300	60	mg/Kg	20	3/21/2022 10:26:07 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/17/2022 5:32:05 PM	66213
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2022 5:32:05 PM	66213
Surr: DNOP	104	51.1-141	%Rec	1	3/17/2022 5:32:05 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/17/2022 3:31:00 PM	66221
Surr: BFB	103	70-130	%Rec	1	3/17/2022 3:31:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	3/17/2022 3:31:00 PM	66221
Toluene	ND	0.050	mg/Kg	1	3/17/2022 3:31:00 PM	66221
Ethylbenzene	ND	0.050	mg/Kg	1	3/17/2022 3:31:00 PM	66221
Xylenes, Total	ND	0.099	mg/Kg	1	3/17/2022 3:31:00 PM	66221
Surr: 4-Bromofluorobenzene	87.2	70-130	%Rec	1	3/17/2022 3:31:00 PM	66221

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

Qualifiers:

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

Page 1 of 32

Lab Order **2203839**Date Reported: **3/28/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-25

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:05:00 AM

 Lab ID:
 2203839-002
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1500	60	mg/Kg	20	3/21/2022 11:03:20 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/17/2022 5:42:44 PM	66213
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/17/2022 5:42:44 PM	66213
Surr: DNOP	75.4	51.1-141	%Rec	1	3/17/2022 5:42:44 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2022 3:51:00 PM	66221
Surr: BFB	103	70-130	%Rec	1	3/17/2022 3:51:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	3/17/2022 3:51:00 PM	66221
Toluene	ND	0.049	mg/Kg	1	3/17/2022 3:51:00 PM	66221
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2022 3:51:00 PM	66221
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2022 3:51:00 PM	66221
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	3/17/2022 3:51:00 PM	66221

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-26

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:10:00 AM

 Lab ID:
 2203839-003
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	s DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: LRN
Chloride	120	59	mg/K	g 20	3/21/2022 11:15:45 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	10	mg/K	g 1	3/17/2022 5:53:21 PM	66213
Motor Oil Range Organics (MRO)	ND	50	mg/K	g 1	3/17/2022 5:53:21 PM	66213
Surr: DNOP	73.8	51.1-141	%Re	1	3/17/2022 5:53:21 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/K	g 1	3/17/2022 4:10:00 PM	66221
Surr: BFB	105	70-130	%Re	1	3/17/2022 4:10:00 PM	66221
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	:: BRM
Benzene	ND	0.024	mg/K	g 1	3/17/2022 4:10:00 PM	66221
Toluene	ND	0.049	mg/K	g 1	3/17/2022 4:10:00 PM	66221
Ethylbenzene	ND	0.049	mg/K	g 1	3/17/2022 4:10:00 PM	66221
Xylenes, Total	ND	0.098	mg/K	g 1	3/17/2022 4:10:00 PM	66221
Surr: 4-Bromofluorobenzene	88.4	70-130	%Re	1	3/17/2022 4:10:00 PM	66221

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

Qualifiers:

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

Page 3 of 32

Lab Order **2203839**Date Reported: **3/28/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-27

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:15:00 AM

 Lab ID:
 2203839-004
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	180	60	mg/Kg	20	3/21/2022 11:52:59 PM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2022 6:03:57 PM	66213
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 6:03:57 PM	66213
Surr: DNOP	98.0	51.1-141	%Rec	1	3/17/2022 6:03:57 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2022 4:30:00 PM	66221
Surr: BFB	103	70-130	%Rec	1	3/17/2022 4:30:00 PM	66221
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	3/17/2022 4:30:00 PM	66221
Toluene	ND	0.049	mg/Kg	1	3/17/2022 4:30:00 PM	66221
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2022 4:30:00 PM	66221
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2022 4:30:00 PM	66221
Surr: 4-Bromofluorobenzene	88.5	70-130	%Rec	1	3/17/2022 4:30:00 PM	66221

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-28

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:20:00 AM

 Lab ID:
 2203839-005
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Unit	s DF	F Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	870	60	mg/k	g 20	3/22/2022 12:05:24 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	130	9.5	mg/k	g 1	3/18/2022 11:38:04 PM	66213
Motor Oil Range Organics (MRO)	190	47	mg/k	g 1	3/18/2022 11:38:04 PM	66213
Surr: DNOP	96.8	51.1-141	%Re	c 1	3/18/2022 11:38:04 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/k	g 1	3/17/2022 4:50:00 PM	66221
Surr: BFB	102	70-130	%Re	c 1	3/17/2022 4:50:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	:: BRM
Benzene	ND	0.024	mg/k	g 1	3/17/2022 4:50:00 PM	66221
Toluene	ND	0.047	mg/k	g 1	3/17/2022 4:50:00 PM	66221
Ethylbenzene	ND	0.047	mg/k	g 1	3/17/2022 4:50:00 PM	66221
Xylenes, Total	ND	0.095	mg/k	g 1	3/17/2022 4:50:00 PM	66221
Surr: 4-Bromofluorobenzene	87.2	70-130	%Re	c 1	3/17/2022 4:50:00 PM	66221

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

Qualifiers:

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

porting Limit Page 5 of 32

Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-29

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 8:25:00 AM

 Lab ID:
 2203839-006
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	5800	300	mg/Kg	100	3/23/2022 10:50:19 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2022 6:25:06 PM	66213
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 6:25:06 PM	66213
Surr: DNOP	99.5	51.1-141	%Rec	1	3/17/2022 6:25:06 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2022 5:09:00 PM	66221
Surr: BFB	106	70-130	%Rec	1	3/17/2022 5:09:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.023	mg/Kg	1	3/17/2022 5:09:00 PM	66221
Toluene	ND	0.047	mg/Kg	1	3/17/2022 5:09:00 PM	66221
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2022 5:09:00 PM	66221
Xylenes, Total	ND	0.094	mg/Kg	1	3/17/2022 5:09:00 PM	66221
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	3/17/2022 5:09:00 PM	66221

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

Qualifiers:

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

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**CLIENT:** GHD Midland

### **Analytical Report**

Lab Order **2203839**Date Reported: **3/28/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-30

**Project:** Yates AS Fee Battery **Collection Date:** 3/14/2022 8:30:00 AM

**Lab ID:** 2203839-007 **Matrix:** SOIL **Received Date:** 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	3500	150	mg/Kg	50	3/23/2022 11:02:43 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2022 6:35:40 PM	66213
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2022 6:35:40 PM	66213
Surr: DNOP	126	51.1-141	%Rec	1	3/17/2022 6:35:40 PM	66213
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2022 5:29:00 PM	66221
Surr: BFB	111	70-130	%Rec	1	3/17/2022 5:29:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.023	mg/Kg	1	3/17/2022 5:29:00 PM	66221
Toluene	ND	0.047	mg/Kg	1	3/17/2022 5:29:00 PM	66221
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2022 5:29:00 PM	66221
Xylenes, Total	ND	0.094	mg/Kg	1	3/17/2022 5:29:00 PM	66221
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	3/17/2022 5:29:00 PM	66221

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

Qualifiers:

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

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Lab Order **2203839**Date Reported: **3/28/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-31

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 9:00:00 AM

 Lab ID:
 2203839-008
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1600	60	mg/Kg	20	3/22/2022 12:42:38 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/18/2022 5:56:33 PM	66234
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2022 5:56:33 PM	66234
Surr: DNOP	74.0	51.1-141	%Rec	1	3/18/2022 5:56:33 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2022 5:49:00 PM	66221
Surr: BFB	109	70-130	%Rec	1	3/17/2022 5:49:00 PM	66221
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/17/2022 5:49:00 PM	66221
Toluene	ND	0.048	mg/Kg	1	3/17/2022 5:49:00 PM	66221
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2022 5:49:00 PM	66221
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2022 5:49:00 PM	66221
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	3/17/2022 5:49:00 PM	66221

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-32

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 9:05:00 AM

 Lab ID:
 2203839-009
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	540	60		mg/Kg	20	3/22/2022 12:55:03 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	700	180		mg/Kg	20	3/18/2022 6:07:10 PM	66234
Motor Oil Range Organics (MRO)	1100	880		mg/Kg	20	3/18/2022 6:07:10 PM	66234
Surr: DNOP	0	51.1-141	S	%Rec	20	3/18/2022 6:07:10 PM	66234
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Surr: BFB	105	70-130		%Rec	1	3/17/2022 6:09:00 PM	66221
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.023		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Toluene	ND	0.047		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Xylenes, Total	ND	0.093		mg/Kg	1	3/17/2022 6:09:00 PM	66221
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	3/17/2022 6:09:00 PM	66221

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-33

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 9:10:00 AM

 Lab ID:
 2203839-010
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1300	60	mg/Kg	20	3/22/2022 1:07:27 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	250	9.9	mg/Kg	1	3/21/2022 3:15:19 PM	66234
Motor Oil Range Organics (MRO)	520	49	mg/Kg	1	3/21/2022 3:15:19 PM	66234
Surr: DNOP	91.7	51.1-141	%Rec	1	3/21/2022 3:15:19 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2022 7:28:13 PM	66222
Surr: BFB	105	70-130	%Rec	1	3/17/2022 7:28:13 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 7:28:13 PM	66222
Toluene	ND	0.049	mg/Kg	1	3/17/2022 7:28:13 PM	66222
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2022 7:28:13 PM	66222
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2022 7:28:13 PM	66222
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/17/2022 7:28:13 PM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-34

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 9:15:00 AM

 Lab ID:
 2203839-011
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	2700	150	mg/Kg	50	3/23/2022 11:15:08 AM	66306
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/18/2022 6:28:24 PM	66234
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/18/2022 6:28:24 PM	66234
Surr: DNOP	61.3	51.1-141	%Rec	1	3/18/2022 6:28:24 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2022 8:39:17 PM	66222
Surr: BFB	109	70-130	%Rec	1	3/17/2022 8:39:17 PM	66222
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 8:39:17 PM	66222
Toluene	ND	0.048	mg/Kg	1	3/17/2022 8:39:17 PM	66222
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2022 8:39:17 PM	66222
Xylenes, Total	ND	0.097	mg/Kg	1	3/17/2022 8:39:17 PM	66222
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	3/17/2022 8:39:17 PM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-35

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 9:20:00 AM

 Lab ID:
 2203839-012
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	5300	300	mg/Kg	100	3/23/2022 11:27:33 AM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/18/2022 6:39:02 PM	66234
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2022 6:39:02 PM	66234
Surr: DNOP	84.0	51.1-141	%Rec	1	3/18/2022 6:39:02 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2022 9:50:08 PM	66222
Surr: BFB	106	70-130	%Rec	1	3/17/2022 9:50:08 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 9:50:08 PM	66222
Toluene	ND	0.048	mg/Kg	1	3/17/2022 9:50:08 PM	66222
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2022 9:50:08 PM	66222
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2022 9:50:08 PM	66222
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	3/17/2022 9:50:08 PM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-1

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 10:00:00 AM

 Lab ID:
 2203839-013
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	160	60	mg/Kg	20	3/22/2022 3:03:41 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/18/2022 6:49:42 PM	66234
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2022 6:49:42 PM	66234
Surr: DNOP	97.0	51.1-141	%Rec	1	3/18/2022 6:49:42 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2022 10:13:41 PM	66222
Surr: BFB	105	70-130	%Rec	1	3/17/2022 10:13:41 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/17/2022 10:13:41 PM	66222
Toluene	ND	0.049	mg/Kg	1	3/17/2022 10:13:41 PM	66222
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2022 10:13:41 PM	66222
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2022 10:13:41 PM	66222
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	3/17/2022 10:13:41 PM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-2

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 10:05:00 AM

 Lab ID:
 2203839-014
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	99	60	mg/Kg	20	3/22/2022 3:16:06 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/18/2022 7:00:22 PM	66234
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2022 7:00:22 PM	66234
Surr: DNOP	72.8	51.1-141	%Rec	1	3/18/2022 7:00:22 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2022 10:37:11 PM	66222
Surr: BFB	106	70-130	%Rec	1	3/17/2022 10:37:11 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 10:37:11 PM	66222
Toluene	ND	0.048	mg/Kg	1	3/17/2022 10:37:11 PM	66222
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2022 10:37:11 PM	66222
Xylenes, Total	ND	0.095	mg/Kg	1	3/17/2022 10:37:11 PM	66222
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/17/2022 10:37:11 PM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-3

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 10:10:00 AM

 Lab ID:
 2203839-015
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	160	60	mg/Kg	20	3/22/2022 3:28:31 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/21/2022 3:52:22 PM	66234
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/21/2022 3:52:22 PM	66234
Surr: DNOP	97.0	51.1-141	%Rec	1	3/21/2022 3:52:22 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2022 11:00:43 PM	66222
Surr: BFB	108	70-130	%Rec	1	3/17/2022 11:00:43 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 11:00:43 PM	66222
Toluene	ND	0.047	mg/Kg	1	3/17/2022 11:00:43 PM	66222
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2022 11:00:43 PM	66222
Xylenes, Total	ND	0.095	mg/Kg	1	3/17/2022 11:00:43 PM	66222
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	3/17/2022 11:00:43 PM	66222

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

Qualifiers:

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

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**CLIENT:** GHD Midland

### **Analytical Report**

Lab Order **2203839**Date Reported: **3/28/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-4

**Project:** Yates AS Fee Battery **Collection Date:** 3/14/2022 10:15:00 AM

**Lab ID:** 2203839-016 **Matrix:** SOIL **Received Date:** 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	59	mg/Kg	20	3/22/2022 4:05:45 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/18/2022 7:21:38 PM	66234
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2022 7:21:38 PM	66234
Surr: DNOP	55.9	51.1-141	%Rec	1	3/18/2022 7:21:38 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2022 11:24:14 PM	66222
Surr: BFB	104	70-130	%Rec	1	3/17/2022 11:24:14 PM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2022 11:24:14 PM	66222
Toluene	ND	0.047	mg/Kg	1	3/17/2022 11:24:14 PM	66222
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2022 11:24:14 PM	66222
Xylenes, Total	ND	0.094	mg/Kg	1	3/17/2022 11:24:14 PM	66222
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	3/17/2022 11:24:14 PM	66222

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

Qualifiers:

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

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**CLIENT:** GHD Midland

### **Analytical Report**

Lab Order **2203839**Date Reported: **3/28/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-5

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 10:20:00 AM

 Lab ID:
 2203839-017
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Result **POL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride ND 60 mg/Kg 20 3/22/2022 4:18:10 PM 66322 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.0 mg/Kg 3/18/2022 7:32:14 PM 66234 Motor Oil Range Organics (MRO) ND 66234 45 mg/Kg 1 3/18/2022 7:32:14 PM Surr: DNOP 51.8 %Rec 3/18/2022 7:32:14 PM 66234 51.1-141 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/17/2022 11:47:39 PM 66222 Gasoline Range Organics (GRO) ND 47 mg/Kg 1 Surr: BFB 104 %Rec 3/17/2022 11:47:39 PM 66222 70-130 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 3/17/2022 11:47:39 PM 66222 mg/Kg Toluene ND 0.047 mg/Kg 3/17/2022 11:47:39 PM 66222 Ethylbenzene ND 0.047 mg/Kg 1 3/17/2022 11:47:39 PM 66222 Xylenes, Total ND 0.095 mg/Kg 3/17/2022 11:47:39 PM 66222 Surr: 4-Bromofluorobenzene 95.3 70-130 3/17/2022 11:47:39 PM 66222 %Rec

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

Qualifiers:

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

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Lab Order 2203839

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/28/2022

CLIENT: GHD Midland Client Sample ID: SW-6

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 11:00:00 AM

 Lab ID:
 2203839-018
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	77	60	mg/Kg	20	3/22/2022 4:30:34 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/21/2022 4:15:58 PM	66234
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/21/2022 4:15:58 PM	66234
Surr: DNOP	80.9	51.1-141	%Rec	1	3/21/2022 4:15:58 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/18/2022 12:11:06 AM	66222
Surr: BFB	104	70-130	%Rec	1	3/18/2022 12:11:06 AM	66222
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/18/2022 12:11:06 AM	66222
Toluene	ND	0.048	mg/Kg	1	3/18/2022 12:11:06 AM	66222
Ethylbenzene	ND	0.048	mg/Kg	1	3/18/2022 12:11:06 AM	66222
Xylenes, Total	ND	0.095	mg/Kg	1	3/18/2022 12:11:06 AM	66222
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	3/18/2022 12:11:06 AM	66222

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

Qualifiers:

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

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Lab Order 2203839

Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-7

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 11:05:00 AM

 Lab ID:
 2203839-019
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	ND	60	mg/Kg	20	3/22/2022 4:42:59 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/21/2022 4:39:33 PM	66234
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/21/2022 4:39:33 PM	66234
Surr: DNOP	77.2	51.1-141	%Rec	1	3/21/2022 4:39:33 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/18/2022 1:21:19 AM	66222
Surr: BFB	103	70-130	%Rec	1	3/18/2022 1:21:19 AM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/18/2022 1:21:19 AM	66222
Toluene	ND	0.047	mg/Kg	1	3/18/2022 1:21:19 AM	66222
Ethylbenzene	ND	0.047	mg/Kg	1	3/18/2022 1:21:19 AM	66222
Xylenes, Total	ND	0.095	mg/Kg	1	3/18/2022 1:21:19 AM	66222
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	3/18/2022 1:21:19 AM	66222

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

Qualifiers:

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

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Lab Order **2203839**Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-8

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 11:10:00 AM

 Lab ID:
 2203839-020
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Unit	s DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	190	60	mg/l	(g 20	3/22/2022 4:55:24 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	10	mg/l	(g 1	3/18/2022 8:04:02 PM	66234
Motor Oil Range Organics (MRO)	ND	50	mg/l	(g 1	3/18/2022 8:04:02 PM	66234
Surr: DNOP	60.3	51.1-141	%Re	c 1	3/18/2022 8:04:02 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/l	(g 1	3/18/2022 1:44:39 AM	66222
Surr: BFB	103	70-130	%Re	c 1	3/18/2022 1:44:39 AM	66222
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/l	(g 1	3/18/2022 1:44:39 AM	66222
Toluene	ND	0.048	mg/l	(g 1	3/18/2022 1:44:39 AM	66222
Ethylbenzene	ND	0.048	mg/l	(g 1	3/18/2022 1:44:39 AM	66222
Xylenes, Total	ND	0.096	mg/l	(g 1	3/18/2022 1:44:39 AM	66222
Surr: 4-Bromofluorobenzene	91.4	70-130	%Re	c 1	3/18/2022 1:44:39 AM	66222

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

Qualifiers:

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

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**CLIENT:** GHD Midland

### **Analytical Report**

Lab Order **2203839**Date Reported: **3/28/2022** 

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-9

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 11:15:00 AM

 Lab ID:
 2203839-021
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	3/22/2022 5:07:49 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/21/2022 5:03:12 PM	66234
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/21/2022 5:03:12 PM	66234
Surr: DNOP	80.1	51.1-141	%Rec	1	3/21/2022 5:03:12 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/18/2022 2:07:57 AM	66222
Surr: BFB	103	70-130	%Rec	1	3/18/2022 2:07:57 AM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/18/2022 2:07:57 AM	66222
Toluene	ND	0.047	mg/Kg	1	3/18/2022 2:07:57 AM	66222
Ethylbenzene	ND	0.047	mg/Kg	1	3/18/2022 2:07:57 AM	66222
Xylenes, Total	ND	0.093	mg/Kg	1	3/18/2022 2:07:57 AM	66222
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	3/18/2022 2:07:57 AM	66222

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

Qualifiers:

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

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Lab Order **2203839**Date Reported: **3/28/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-36

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 12:00:00 PM

 Lab ID:
 2203839-022
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1100	60		mg/Kg	20	3/22/2022 5:20:13 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	310	97		mg/Kg	10	3/21/2022 3:57:40 PM	66234
Motor Oil Range Organics (MRO)	1000	480		mg/Kg	10	3/21/2022 3:57:40 PM	66234
Surr: DNOP	0	51.1-141	S	%Rec	10	3/21/2022 3:57:40 PM	66234
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Surr: BFB	97.9	70-130		%Rec	1	3/18/2022 2:31:30 AM	66222
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Toluene	ND	0.049		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Xylenes, Total	ND	0.098		mg/Kg	1	3/18/2022 2:31:30 AM	66222
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/18/2022 2:31:30 AM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-37

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 12:05:00 PM

 Lab ID:
 2203839-023
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Unit	S DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	1700	61	mg/K	g 20	3/22/2022 5:32:38 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	78	9.8	mg/K	g 1	3/21/2022 3:36:29 PM	66234
Motor Oil Range Organics (MRO)	210	49	mg/K	g 1	3/21/2022 3:36:29 PM	66234
Surr: DNOP	87.2	51.1-141	%Re	1	3/21/2022 3:36:29 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/K	g 1	3/18/2022 2:54:45 AM	66222
Surr: BFB	102	70-130	%Re	1	3/18/2022 2:54:45 AM	66222
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/K	g 1	3/18/2022 2:54:45 AM	66222
Toluene	ND	0.048	mg/K	g 1	3/18/2022 2:54:45 AM	66222
Ethylbenzene	ND	0.048	mg/K	g 1	3/18/2022 2:54:45 AM	66222
Xylenes, Total	ND	0.096	mg/K	g 1	3/18/2022 2:54:45 AM	66222
Surr: 4-Bromofluorobenzene	93.6	70-130	%Re	1	3/18/2022 2:54:45 AM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-38

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 12:10:00 PM

 Lab ID:
 2203839-024
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1900	60	mg/Kg	20	3/22/2022 5:45:02 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/18/2022 8:46:31 PM	66234
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/18/2022 8:46:31 PM	66234
Surr: DNOP	68.0	51.1-141	%Rec	1	3/18/2022 8:46:31 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/18/2022 3:17:59 AM	66222
Surr: BFB	100	70-130	%Rec	1	3/18/2022 3:17:59 AM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/18/2022 3:17:59 AM	66222
Toluene	ND	0.048	mg/Kg	1	3/18/2022 3:17:59 AM	66222
Ethylbenzene	ND	0.048	mg/Kg	1	3/18/2022 3:17:59 AM	66222
Xylenes, Total	ND	0.097	mg/Kg	1	3/18/2022 3:17:59 AM	66222
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	3/18/2022 3:17:59 AM	66222

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

Qualifiers:

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

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Date Reported: 3/28/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-39

 Project:
 Yates AS Fee Battery
 Collection Date: 3/14/2022 12:15:00 PM

 Lab ID:
 2203839-025
 Matrix: SOIL
 Received Date: 3/16/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	890	60	mg/Kg	20	3/22/2022 5:57:27 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/18/2022 8:57:10 PM	66234
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/18/2022 8:57:10 PM	66234
Surr: DNOP	69.6	51.1-141	%Rec	1	3/18/2022 8:57:10 PM	66234
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/18/2022 3:41:17 AM	66222
Surr: BFB	111	70-130	%Rec	1	3/18/2022 3:41:17 AM	66222
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/18/2022 3:41:17 AM	66222
Toluene	ND	0.050	mg/Kg	1	3/18/2022 3:41:17 AM	66222
Ethylbenzene	ND	0.050	mg/Kg	1	3/18/2022 3:41:17 AM	66222
Xylenes, Total	ND	0.10	mg/Kg	1	3/18/2022 3:41:17 AM	66222
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	3/18/2022 3:41:17 AM	66222

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

28-Mar-22

2203839

WO#:

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-66306 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66306 RunNo: 86641

Prep Date: 3/21/2022 Analysis Date: 3/21/2022 SeqNo: 3058800 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-66306 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66306 RunNo: 86641

Prep Date: 3/21/2022 Analysis Date: 3/21/2022 SeqNo: 3058801 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.9 90 110

Sample ID: MB-66306 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66306 RunNo: 86682

Prep Date: 3/21/2022 Analysis Date: 3/22/2022 SeqNo: 3060597 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66306 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66306 RunNo: 86682

Prep Date: 3/21/2022 Analysis Date: 3/22/2022 SeqNo: 3060598 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.6 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

3.2

WO#: 2203839

28-Mar-22

GHD Midland **Client: Project:** Yates AS Fee Battery

Sample ID: LCS-66213	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: <b>66</b> 2	213	F	RunNo: 8	6542				
Prep Date: 3/16/2022	Analysis D	ate: 3/	17/2022	5	SeqNo: 3	055282	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	68.9	135			
Surr: DNOP	4.4		5.000		88.4	51.1	141			
Sample ID: MB-66213	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: <b>66</b> 2	213	F	RunNo: 8	6542				
Prep Date: 3/16/2022	Analysis D	ate: <b>3/</b>	17/2022	5	SeqNo: 3	055286	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	8.9		10.00		88.7	51.1	141			
Sample ID: <b>2203839-008AMS</b>	SampT	уре: МS	<del></del>	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BH-31	Batch	n ID: <b>66</b> 2	234	F	RunNo: 8	6572				
Prep Date: 3/17/2022	Analysis D	ate: <b>3/</b>	18/2022	5	SeqNo: 3	057041	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.5	47.39	0	89.9	36.1	154			•

Sample ID: 2203839-008AMSI	SampT	уре: М\$	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BH-31	Batch	ID: <b>66</b> 2	234	F	RunNo: 8	6572				
Prep Date: 3/17/2022	Analysis D	ate: <b>3/</b>	18/2022	S	SeqNo: 3	057042	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.7	48.73	0	109	36.1	154	22.3	33.9	
Surr: DNOP	2.7		4.873		55.3	51.1	141	0	0	

67.5

51.1

141

4.739

Sample ID: LCS-66234	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66234			R	tunNo: 80	6572					
Prep Date: 3/17/2022	Analysis Date: 3/18/2022			SeqNo: <b>3057103</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.7	68.9	135				
Surr: DNOP	3.8		5.000		76.6	51.1	141				

#### Qualifiers:

Surr: DNOP

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203839 28-Mar-22** 

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-66234 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **66234** RunNo: **86572** 

Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3057107 Units: mg/Kg

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 8.7 10.00 86.6 51.1 141

#### 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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 28 of 32

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203839 28-Mar-22** 

Client:	GHD Midland					
Project:	Yates AS Fee Battery					

Sample ID: <b>mb-66222</b>	SamaT	ype: ME	SI K	Too	tCodo: <b>=</b>	DA Mathad	8015D: Gasa	line Pana			
Client ID: PBS		• •		TestCode: EPA Method 8015D: Gasoline Range							
Prep Date: 3/16/2022	Batch ID: <b>66222</b> Analysis Date: <b>3/18/2022</b>			RunNo: <b>86557</b>			Unite: martis				
	,			SeqNo: <b>3054784</b>			Units: mg/Kg				
Analyte	Result ND	PQL 5.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	1000	5.0	1000		104	70	130				
Sample ID: Ics-66222	SampT	ype: <b>LC</b>	s	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	n ID: <b>66</b>	222	F	RunNo: 8	36557					
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			SeqNo: <b>3054785</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	78.6	131				
Surr: BFB	2200		1000		223	70	130			S	
Sample ID: <b>2203839-010ams</b>	SampType: MS TestCode: EPA Method 8015D: Gasoline Range										
Client ID: BH-33	Batch ID: 66222			RunNo: <b>86557</b>							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			SeqNo: <b>3054787</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	4.9	24.32	0	107	70	130				
Surr: BFB	2200		972.8		226	70	130			S	
Sample ID: 2203839-010amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range											
Client ID: BH-33	Batch ID: 66222			F	RunNo: 8	36557					
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			SeqNo: <b>3054788</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	4.8	24.18	0	101	70	130	6.29	20		
Surr: BFB	2100		967.1		222	70	130	0	0	S	
Sample ID: Ics-66221	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range										
Client ID: LCSS	Batch ID: 66221			RunNo: <b>86561</b>							
Prep Date: 3/16/2022	Analysis Date: 3/17/2022			SeqNo: <b>3054912</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131				
Surr: BFB	2300		1000		232	70	130			S	

#### Prep Date: 3/16/2022

Sample ID: mb-66221

PBS

SampType: MBLK

Batch ID: 66221

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: **66221** RunNo: **86561** 

Analysis Date: 3/17/2022 SeqNo: 3054914 Units: mg/Kg

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

#### Qualifiers:

Client ID:

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

Page 29 of 32

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203839** 

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: mb-66221 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66221 RunNo: 86561

Prep Date: 3/16/2022 Analysis Date: 3/17/2022 SeqNo: 3054914 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 103 70 130

#### Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203839

28-Mar-22

**Client:** GHD Midland **Project:** Yates AS Fee Battery

Sample ID: mb-66222 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66222 RunNo: 86557

Prep Date: 3/16/2022 Analysis Date: 3/18/2022 SeqNo: 3054823 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.96 1.000 96.1 70 130

Sample ID: LCS-66222 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 66222 RunNo: 86557

Prep Date: 3/16/2022	Analysis Date: 3/17/2022		٤	seqNo: 3	054824	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.2	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	70	130			

Sample ID: 2203839-011ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BH-34 Batch ID: 66222 RunNo: 86557

Prep Date: 3/16/2022	Analysis D	)ate: <b>3/</b>	17/2022	S	SeqNo: 30	054827	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9709	0	89.2	68.8	120			
Toluene	0.93	0.049	0.9709	0	95.7	73.6	124			
Ethylbenzene	0.95	0.049	0.9709	0	98.2	72.7	129			
Xylenes, Total	2.9	0.097	2.913	0	98.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9709		98.3	70	130			

Sample ID: 2203839-011amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 66222 RunNo: 86557 Client ID: BH-34

Prep Date: 3/16/2022	Analysis D	)ate: <b>3/</b>	17/2022	SeqNo: <b>3054828</b>			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9690	0	83.0	68.8	120	7.40	20	
Toluene	0.87	0.048	0.9690	0	89.4	73.6	124	7.08	20	
Ethylbenzene	0.89	0.048	0.9690	0	91.6	72.7	129	7.13	20	
Xylenes, Total	2.7	0.097	2.907	0	92.0	75.7	126	7.29	20	
Surr: 4-Bromofluorobenzene	0.98		0.9690		101	70	130	0	0	

#### 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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 31 of 32

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2203839** 

28-Mar-22

Client: GHD Midland
Project: Yates AS Fee Battery

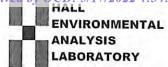
Sample ID: Ics-66221	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: <b>66</b> 2	221	F	RunNo: 8	6561				
Prep Date: 3/16/2022	Analysis D	)ate: <b>3/</b>	17/2022	8	SeqNo: 3	054937	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	70	130			

Sample ID: <b>mb-66221</b>	Samp	Type: ME	BLK	Tes	tCode: <b>E</b> l	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 66	221	F	RunNo: 8	6561				
Prep Date: 3/16/2022	Analysis [	Date: <b>3/</b>	17/2022	8	SeqNo: 3	054938	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: GHD Midland Work Order Number: 2203839 RcptNo: 1 Received By: Tracy Casarrubias 3/16/2022 8:00:00 AM Completed By: Tracy Casarrubias 3/16/2022 9:52:10 AM Reviewed By: JN3/16/22 Chain of Custody 1. Is Chain of Custody complete? Yes V No | Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No 🗍 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes V No 📗 6. Sufficient sample volume for indicated test(s)? Yes V No | 7. Are samples (except VOA and ONG) properly preserved? ~ No Yes 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA V Yes 10. Were any sample containers received broken? Yes No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) ( or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 Checked by: KPG 3/16/22 13. Is it clear what analyses were requested? Yes 🗸 No 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 5.3 Good Yes

O	hain.	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				1	)	10	5	(013		iece
Client:	GHD		-	Standard	□ Rush	25.0		- ` ] [		KAT	N I R		HALL ENVIRONMENTAL ANALYSTS LABODATODY	LAL Dev	ivea i
				Project Name:		0			d www	www.hallenvironmental.com	) trans				by O
Mailing	Mailing Address:	16		20/2	18 Ec	2 4 2	49	01 Haw	ins NE	4901 Hawkins NE - Albuquerque, NM 87109	nerque	NN 's	37109		CD: 3
324 W.	Main St.	324 W. Main St. Suite 108,	8, Artesia NM 88210	Project #:		0	Tel.	al. 505-3	505-345-3975	Fax	505-3	505-345-4107	07		0/1//
Phone #:	#	(505)377-4218	-4218	1722	1048					Analysis	Request	rest			202
emailo	email or Fax#:	Becky.Ha	Becky.Haskell@ghd.com	Project Manager:	ger:					<sup>†</sup> O9		(tu	00	-	7
QA/QC Packa □ Standard	QA/QC Package: ☐ Standard		☐ Level 4 (Full Validation)	Becky Haske Tom Larson	<b>=</b>			bcB,a	SWIS	 6 '⁵Od		əsdA\t	15 10		74.03 1
Accred	Accreditation:		☐ Az Compliance	Sampler:	Zach Comino	E CZ			78 70	NO <sup>5</sup> '	(/	resen	1/2/2		171
	□ EDD (Type)	1 1		# of Coolers:			_			_	/OΛ:	<sub>I</sub> ) w	-0		
				Cooler Temp(including 0F); S	(including OF); S 1	+0.2 = 5.3 c		_		λ, 1 <sub>δ</sub>		ToTilc	(017		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203839	\ X∃T8 08:H9JT	8081 Pa	d eHA9 B AROR	Cl' E' E	S) 07S8	Total Co	(مراق	,	
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	OBIC		134-20			003									
	2880		134.27			hoo									
	0820		87-HZ			200									
	0825		134-29			000									
	0830		13/1-30			400									
	800		DH-31			900									
	Sors		RH-32			600									
	0410		BH-33			010						_			
	0915		134-34			110									
A	Ro		SH-35	4		210	4/1					<i>y</i> •			
Date:	Time:	Relinquished by:	ed by:	Received by:	Via:	-	Rem	arks: Pl	sase em	ail: Cha	se_Set	ttle@e	Remarks: Please email: Chase_Settle@eogresources.com;	es.com;	
031552	20800	000	Comer Mel	Werr	3	7/18/32 800	M	atthew.L	aughlin(	aghd.co	m: Alo	ng wit	Matthew.Laughlin@ghd.com; Along with Becky Haskell	askell	
3 die.	20 Oct	Keiinquish	ed by.	Received by:	Na. Car	9:01 G:01			Direct	listed above. Direct Bill to EOG Chase Settle	listed above.	ase S	ettle		Page
	If noreseason il	Z Solomos	I managed by the Heal Environmental may be disharded to other		ceredited laboratoric	The Control is the sense as notice of this control is not sub-contracted data will be clearly noted as the sense as notice of this sense is not the sense in the sense is not the sense in the sense in the sense is not the sense in the sen	is possibility	Anv sub-co	leb before	alo ad Ilian o		1	analytical rep	ort.	221

	シーマー	Chain-or-Custody Record	ruin-Around Time.			0.15	61-23		J	1	20	1	
Client: GHD			Standard	Rush Kush	1.5.A.		I «	ALL	EN	VIR	ONO	HALL ENVIRONMENTAL	76
			Project Name:		0								
Mailing Address:	iss:		Coles	AS K	Bethe Lin	490	www.naire10100mental.com 4901 Hawkins NE - Albuquerque NM 87109	www.naneilvinonmentar.com	Albugi	inenta lerane	NM 87	601	
324 W. Main	St. Suite 10	324 W. Main St. Suite 108, Artesia NM 88210	Project #:			<u> </u>	1.505-345-3975	5-3975	E H	505-3	505-345-4107	3	
Phone #:	(505)377-4218	7-4218		1228401				A	Analysis	Request	est		
email or Fax#:		Becky.Haskell@ghd.com	Project Manager:	ager:		_	F	F	70		(1		L
QA/QC Package:	je:		Becky Haskell	=			s,e	SI	os "		uəs		
☐ Standard		☐ Level 4 (Full Validation)	Tom Larson				ьсЕ	NIS	, Od		AAV		
Accreditation:		☐ Az Compliance	Sampler:	Zach Comino	0		_	3270	,2O		77 uəs		
□ NELAC			On Ice:	X Yes	<b>%</b>		_		N		Pre		
□ EDD (Type)	(6		# of Coolers:	•		_				ΟΛ	) ) w		
			Cooler Temp(including 0F);	(Including OF); 34	F5.1402-53	100				-ime	lifor		
Date Time	Matrix	တ	Container Type and #	Preservative Type	HEAL No. 2203839	BTEX /	8081 Pe	и знач 8 дяся	85e0 (Vi	S) 0728	Total Co		,
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V lees	10	2-078			ыо	-							
1000	0	S-02			015								
SIOI	10	562-4			010								
1020	2	SW-5			410	<b>"</b>							
100		SW-6			810								
501)	1.	560-7			619								
0))]		5.0.8			020								
1115		8-MS			120								
NACO		DH-36			270								
izos	10	134-37			023						F		
	_	RH-38	4		PZO	+ A					-		
Date: Time:	Relinquished by:	hed by:	Received by:	Via:	Date Time	Rema	Remarks: Please email: Chase	se ema	: Chas		e@eod	Settle@eogresources.com;	;mo:
13	7	Come Pell.	Colour	020	3	N	Tom.Lars	on@gh	l.com;	Zach.C	omino	Tom.Larson@ghd.com; Zach.Comino@ghd.com	=
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13/30 1/30 UNIMINA	77	Man S		1	3/16/22			מבלה מ			Ser Con	3)	

If necessary, samples submitted to Hall Environmental may be seppentracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

April 04, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates AS Battery OrderNo.: 2203932

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-40

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:00:00 AM

 Lab ID:
 2203932-002
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	490	60		mg/Kg	20	3/23/2022 12:56:58 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	1900	94		mg/Kg	10	3/18/2022 3:04:43 PM	66242
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	3/18/2022 3:04:43 PM	66242
Surr: DNOP	0	51.1-141	S	%Rec	10	3/18/2022 3:04:43 PM	66242
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Surr: BFB	132	70-130	S	%Rec	5	3/18/2022 7:15:00 PM	66237
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Toluene	ND	0.23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Ethylbenzene	ND	0.23		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Xylenes, Total	ND	0.46		mg/Kg	5	3/18/2022 7:15:00 PM	66237
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	5	3/18/2022 7:15:00 PM	66237

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-41

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:05:00 AM

 Lab ID:
 2203932-003
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1200	60	mg/Kg	20	3/22/2022 6:47:07 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	11	9.8	mg/Kg	1	3/21/2022 4:08:30 PM	66266
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/21/2022 4:08:30 PM	66266
Surr: DNOP	107	51.1-141	%Rec	1	3/21/2022 4:08:30 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/18/2022 10:58:10 PM	66251
Surr: BFB	108	70-130	%Rec	1	3/18/2022 10:58:10 PM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/18/2022 10:58:10 PM	66251
Toluene	ND	0.048	mg/Kg	1	3/18/2022 10:58:10 PM	66251
Ethylbenzene	ND	0.048	mg/Kg	1	3/18/2022 10:58:10 PM	66251
Xylenes, Total	ND	0.095	mg/Kg	1	3/18/2022 10:58:10 PM	66251
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	3/18/2022 10:58:10 PM	66251

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

Qualifiers:

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

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Lab Order **2203932**Date Reported: **4/4/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-42

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:10:00 AM

 Lab ID:
 2203932-004
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1700	60	mg/Kg	20	3/22/2022 7:24:19 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	87	48	mg/Kg	5	3/22/2022 3:09:40 PM	66266
Motor Oil Range Organics (MRO)	350	240	mg/Kg	5	3/22/2022 3:09:40 PM	66266
Surr: DNOP	77.1	51.1-141	%Rec	5	3/22/2022 3:09:40 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/19/2022 12:08:29 AM	66251
Surr: BFB	106	70-130	%Rec	1	3/19/2022 12:08:29 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/19/2022 12:08:29 AM	66251
Toluene	ND	0.048	mg/Kg	1	3/19/2022 12:08:29 AM	66251
Ethylbenzene	ND	0.048	mg/Kg	1	3/19/2022 12:08:29 AM	66251
Xylenes, Total	ND	0.095	mg/Kg	1	3/19/2022 12:08:29 AM	66251
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	3/19/2022 12:08:29 AM	66251

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

Qualifiers:

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

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Lab Order 2203932

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-43

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:15:00 AM

 Lab ID:
 2203932-005
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	740	61		mg/Kg	20	3/22/2022 7:36:43 PM	66322
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	390	200		mg/Kg	20	3/21/2022 4:30:04 PM	66266
Motor Oil Range Organics (MRO)	1200	1000		mg/Kg	20	3/21/2022 4:30:04 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 4:30:04 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Surr: BFB	101	70-130		%Rec	1	3/19/2022 1:18:53 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2022 1:18:53 AM	66251
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	3/19/2022 1:18:53 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-44

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:18:00 AM

 Lab ID:
 2203932-006
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	<b>Qual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1100	60	mg/Kg	20	3/23/2022 1:59:01 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	310	49	mg/Kg	5	3/22/2022 3:20:25 PM	66266
Motor Oil Range Organics (MRO)	740	240	mg/Kg	5	3/22/2022 3:20:25 PM	66266
Surr: DNOP	121	51.1-141	%Rec	5	3/22/2022 3:20:25 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/19/2022 1:42:20 AM	66251
Surr: BFB	106	70-130	%Rec	1	3/19/2022 1:42:20 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/19/2022 1:42:20 AM	66251
Toluene	ND	0.049	mg/Kg	1	3/19/2022 1:42:20 AM	66251
Ethylbenzene	ND	0.049	mg/Kg	1	3/19/2022 1:42:20 AM	66251
Xylenes, Total	ND	0.099	mg/Kg	1	3/19/2022 1:42:20 AM	66251
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/19/2022 1:42:20 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-45

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:00:00 AM

 Lab ID:
 2203932-007
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1900	60	mg/Kg	20	3/23/2022 2:11:25 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	190	10	mg/Kg	1	3/22/2022 2:27:03 PM	66266
Motor Oil Range Organics (MRO)	410	50	mg/Kg	1	3/22/2022 2:27:03 PM	66266
Surr: DNOP	114	51.1-141	%Rec	1	3/22/2022 2:27:03 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/19/2022 2:05:44 AM	66251
Surr: BFB	104	70-130	%Rec	1	3/19/2022 2:05:44 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/19/2022 2:05:44 AM	66251
Toluene	ND	0.049	mg/Kg	1	3/19/2022 2:05:44 AM	66251
Ethylbenzene	ND	0.049	mg/Kg	1	3/19/2022 2:05:44 AM	66251
Xylenes, Total	ND	0.098	mg/Kg	1	3/19/2022 2:05:44 AM	66251
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	3/19/2022 2:05:44 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

#### Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-46

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:25:00 AM

 Lab ID:
 2203932-008
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	520	60	mg/Kg	20	3/23/2022 2:23:50 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	500	9.9	mg/Kg	1	3/22/2022 2:48:21 PM	66266
Motor Oil Range Organics (MRO)	400	49	mg/Kg	1	3/22/2022 2:48:21 PM	66266
Surr: DNOP	102	51.1-141	%Rec	1	3/22/2022 2:48:21 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/19/2022 2:29:08 AM	66251
Surr: BFB	104	70-130	%Rec	1	3/19/2022 2:29:08 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/19/2022 2:29:08 AM	66251
Toluene	ND	0.048	mg/Kg	1	3/19/2022 2:29:08 AM	66251
Ethylbenzene	ND	0.048	mg/Kg	1	3/19/2022 2:29:08 AM	66251
Xylenes, Total	ND	0.097	mg/Kg	1	3/19/2022 2:29:08 AM	66251
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	3/19/2022 2:29:08 AM	66251

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-47

**Project:** Yates AS Battery
 Collection Date: 3/15/2022 10:30:00 AM

 **Lab ID:** 2203932-009
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	550	60		mg/Kg	20	3/23/2022 2:36:14 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	6400	190		mg/Kg	20	3/21/2022 5:13:10 PM	66266
Motor Oil Range Organics (MRO)	3400	930		mg/Kg	20	3/21/2022 5:13:10 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:13:10 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Surr: BFB	125	70-130		%Rec	1	3/19/2022 2:52:34 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Toluene	ND	0.047		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Ethylbenzene	0.058	0.047		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Xylenes, Total	0.15	0.094		mg/Kg	1	3/19/2022 2:52:34 AM	66251
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/19/2022 2:52:34 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-48

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:35:00 AM

 Lab ID:
 2203932-010
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	260	60		mg/Kg	20	3/23/2022 2:48:39 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	1200	190		mg/Kg	20	3/21/2022 5:23:54 PM	66266
Motor Oil Range Organics (MRO)	1400	970		mg/Kg	20	3/21/2022 5:23:54 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:23:54 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Surr: BFB	126	70-130		%Rec	1	3/19/2022 3:15:56 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Xylenes, Total	0.11	0.099		mg/Kg	1	3/19/2022 3:15:56 AM	66251
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/19/2022 3:15:56 AM	66251

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

Qualifiers:

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

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Lab Order 2203932

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-49

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:40:00 AM

 Lab ID:
 2203932-011
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	970	61		mg/Kg	20	3/23/2022 3:01:03 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	8900	200		mg/Kg	20	3/21/2022 5:34:38 PM	66266
Motor Oil Range Organics (MRO)	3800	990		mg/Kg	20	3/21/2022 5:34:38 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 5:34:38 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	19	5.0		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Surr: BFB	236	70-130	S	%Rec	1	3/19/2022 4:49:16 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Toluene	ND	0.050		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Ethylbenzene	0.28	0.050		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Xylenes, Total	0.58	0.10		mg/Kg	1	3/19/2022 4:49:16 AM	66251
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	3/19/2022 4:49:16 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-50

**Project:** Yates AS Battery
 Collection Date: 3/15/2022 10:45:00 AM

 **Lab ID:** 2203932-012
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	140	60	mg/Kg	20	3/23/2022 3:13:27 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	130	48	mg/Kg	5	3/22/2022 3:41:42 PM	66266
Motor Oil Range Organics (MRO)	400	240	mg/Kg	5	3/22/2022 3:41:42 PM	66266
Surr: DNOP	65.1	51.1-141	%Rec	5	3/22/2022 3:41:42 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/19/2022 5:12:36 AM	66251
Surr: BFB	105	70-130	%Rec	1	3/19/2022 5:12:36 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/19/2022 5:12:36 AM	66251
Toluene	ND	0.047	mg/Kg	1	3/19/2022 5:12:36 AM	66251
Ethylbenzene	ND	0.047	mg/Kg	1	3/19/2022 5:12:36 AM	66251
Xylenes, Total	ND	0.094	mg/Kg	1	3/19/2022 5:12:36 AM	66251
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/19/2022 5:12:36 AM	66251

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

Qualifiers:

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

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Lab Order 2203932

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-51

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:50:00 AM

 Lab ID:
 2203932-013
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Un	nits 1	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	2600	150	mg	g/Kg	50	3/24/2022 12:51:11 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	110	49	mg	g/Kg	5	3/22/2022 4:02:57 PM	66266
Motor Oil Range Organics (MRO)	310	240	mg	g/Kg	5	3/22/2022 4:02:57 PM	66266
Surr: DNOP	73.8	51.1-141	%F	Rec	5	3/22/2022 4:02:57 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg	g/Kg	1	3/19/2022 5:35:52 AM	66251
Surr: BFB	106	70-130	%F	Rec	1	3/19/2022 5:35:52 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024	mg	g/Kg	1	3/19/2022 5:35:52 AM	66251
Toluene	ND	0.048	mg	g/Kg	1	3/19/2022 5:35:52 AM	66251
Ethylbenzene	ND	0.048	mg	g/Kg	1	3/19/2022 5:35:52 AM	66251
Xylenes, Total	ND	0.096	mg	g/Kg	1	3/19/2022 5:35:52 AM	66251
Surr: 4-Bromofluorobenzene	96.1	70-130	%F	Rec	1	3/19/2022 5:35:52 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-52

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 10:55:00 AM

 Lab ID:
 2203932-014
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4800	300	mg/Kg	100	3/24/2022 1:03:35 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/21/2022 6:06:43 PM	66266
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/21/2022 6:06:43 PM	66266
Surr: DNOP	91.3	51.1-141	%Rec	1	3/21/2022 6:06:43 PM	66266
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/19/2022 5:59:08 AM	66251
Surr: BFB	105	70-130	%Rec	1	3/19/2022 5:59:08 AM	66251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/19/2022 5:59:08 AM	66251
Toluene	ND	0.050	mg/Kg	1	3/19/2022 5:59:08 AM	66251
Ethylbenzene	ND	0.050	mg/Kg	1	3/19/2022 5:59:08 AM	66251
Xylenes, Total	ND	0.099	mg/Kg	1	3/19/2022 5:59:08 AM	66251
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	3/19/2022 5:59:08 AM	66251

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

Qualifiers:

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

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Lab Order **2203932** 

#### Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-53

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 11:00:00 AM

 Lab ID:
 2203932-015
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	410	60		mg/Kg	20	3/23/2022 4:15:29 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	880	190		mg/Kg	20	3/21/2022 6:17:22 PM	66266
Motor Oil Range Organics (MRO)	1100	960		mg/Kg	20	3/21/2022 6:17:22 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 6:17:22 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Surr: BFB	140	70-130	S	%Rec	1	3/19/2022 6:22:26 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Toluene	ND	0.048		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2022 6:22:26 AM	66251
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/19/2022 6:22:26 AM	66251

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

Qualifiers:

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

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Lab Order **2203932**Date Reported: **4/4/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-54

 Project:
 Yates AS Battery
 Collection Date: 3/15/2022 11:05:00 AM

 Lab ID:
 2203932-016
 Matrix: SOIL
 Received Date: 3/17/2022 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	710	60		mg/Kg	20	3/23/2022 4:27:53 PM	66353
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	5000	200		mg/Kg	20	3/21/2022 6:28:02 PM	66266
Motor Oil Range Organics (MRO)	2500	990		mg/Kg	20	3/21/2022 6:28:02 PM	66266
Surr: DNOP	0	51.1-141	S	%Rec	20	3/21/2022 6:28:02 PM	66266
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Surr: BFB	124	70-130		%Rec	1	3/19/2022 6:45:39 AM	66251
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Toluene	ND	0.049		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Xylenes, Total	ND	0.098		mg/Kg	1	3/19/2022 6:45:39 AM	66251
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/19/2022 6:45:39 AM	66251

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203932** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: MB-66353 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **66353** RunNo: **86719** 

Prep Date: 3/23/2022 Analysis Date: 3/23/2022 SeqNo: 3061682 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66353 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66353 RunNo: 86719

Prep Date: 3/23/2022 Analysis Date: 3/23/2022 SeqNo: 3061683 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.8 90 110

#### Qualifiers:

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

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GHD Midland

**Client:** 

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2203932

04-Apr-22

Project: Yates As	S Battery									
Sample ID: LCS-66242	SampTy	/pe: <b>LC</b>	:s	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: <b>66</b>	242	F	RunNo: 80	6572				
Prep Date: 3/17/2022	Analysis Da	ate: <b>3/</b>	18/2022	S	SeqNo: 30	057105	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	3.8		5.000		75.5	51.1	141			
Sample ID: MB-66242	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch	ID: 66	242	F	RunNo: 80	6572				
Prep Date: 3/17/2022	Analysis Da	ate: <b>3/</b>	18/2022	S	SeqNo: 30	057109	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	8.3		10.00		82.6	51.1	141			
Sample ID: LCS-66266	SampTy	/pe: <b>LC</b>	s	Tes	tCode: <b>E</b>	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID: LCS-66266 Client ID: LCSS		/pe: <b>LC</b>			tCode: <b>EF</b>		8015M/D: Die	esel Range	e Organics	
		ID: <b>66</b>	266	F		6603	8015M/D: Did		e Organics	
Client ID: LCSS	Batch	ID: <b>66</b>	266 21/2022	F	RunNo: 80	6603			e Organics RPDLimit	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte	Batch Analysis Da	ID: <b>66</b> : ate: <b>3/</b>	266 21/2022	F	RunNo: 80 GeqNo: 30	6603 057395	Units: mg/K	(g	-	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte	Batch Analysis Da Result	ID: <b>66</b> : ate: <b>3/</b> PQL	266 21/2022 SPK value	SPK Ref Val	RunNo: <b>86</b> SeqNo: <b>36</b> %REC	5603 057395 LowLimit	Units: mg/K	(g	-	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis Da Result 44	ID: <b>66</b> : ate: <b>3/</b> PQL 10	2266 221/2022 SPK value 50.00 5.000	SPK Ref Val	RunNo: <b>8</b> ( SeqNo: <b>3</b> ( <u>%REC</u> 87.1 81.3	6603 057395 LowLimit 68.9 51.1	Units: mg/K HighLimit 135	(g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis Da Result 44 4.1 SampTy	ID: <b>66</b> : ate: <b>3/</b> PQL 10	266 21/2022 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: <b>8</b> ( SeqNo: <b>3</b> ( <u>%REC</u> 87.1 81.3	057395 LowLimit 68.9 51.1	Units: mg/K HighLimit 135 141	(g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: MB-66266	Batch Analysis Da Result 44 4.1 SampTy	PQL 10  /pe: ME	266 21/2022 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: <b>8</b> 6 SeqNo: <b>3</b> 6 %REC 87.1 81.3 tCode: <b>EF</b>	6603 057395 LowLimit 68.9 51.1 PA Method 6603	Units: mg/K HighLimit 135 141	(g %RPD esel Rango	RPDLimit	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: MB-66266 Client ID: PBS Prep Date: 3/18/2022 Analyte	Batch Analysis Da Result 44 4.1 SampTy Batch	PQL 10  /pe: ME	266 21/2022 SPK value 50.00 5.000 BLK 266	SPK Ref Val 0	RunNo: 86 ReqNo: 36  %REC  87.1  81.3  tCode: EF RunNo: 86 SeqNo: 36	6603 057395 LowLimit 68.9 51.1 PA Method 6603	Units: mg/K HighLimit 135 141 8015M/D: Die	(g %RPD esel Rango	RPDLimit	Qual
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: MB-66266 Client ID: PBS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis Da Result 44 4.1 SampTy Batch Analysis Da	PQL 10  //Pe: ME ID: 66: ate: 3/	266 21/2022 SPK value 50.00 5.000 BLK 266	SPK Ref Val 0 Tes	RunNo: 86 ReqNo: 36  %REC  87.1  81.3  tCode: EF RunNo: 86 SeqNo: 36	6603 D57395 LowLimit 68.9 51.1 PA Method 6603 D57397	Units: mg/K HighLimit 135 141  8015M/D: Did Units: mg/K	%RPD  esel Range	RPDLimit e Organics	
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: MB-66266 Client ID: PBS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch Analysis Da Result 44 4.1 SampTy Batch Analysis Da Result	PQL 10: 66: 10: 66: 10: 66: 10: 66: 10: 66: 10: 66: 10: 66: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10	266 21/2022 SPK value 50.00 5.000 BLK 266	SPK Ref Val 0 Tes	RunNo: 86 ReqNo: 36  %REC  87.1  81.3  tCode: EF RunNo: 86 SeqNo: 36	6603 D57395 LowLimit 68.9 51.1 PA Method 6603 D57397	Units: mg/K HighLimit 135 141  8015M/D: Did Units: mg/K	%RPD esel Range	RPDLimit e Organics	
Client ID: LCSS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: MB-66266 Client ID: PBS Prep Date: 3/18/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis Da Result 44 4.1 SampTy Batch Analysis Da Result ND	PQL 10: 66: 3/PQL 10: 66: 3/PQL 10: 66: 3/PQL 10: 10: 66: 3/PQL 10: 10: 10: 10: 10: 10: 10: 10: 10: 10:	266 21/2022 SPK value 50.00 5.000 BLK 266	SPK Ref Val 0 Tes	RunNo: 86 ReqNo: 36  %REC  87.1  81.3  tCode: EF RunNo: 86 SeqNo: 36	6603 D57395 LowLimit 68.9 51.1 PA Method 6603 D57397	Units: mg/K HighLimit 135 141  8015M/D: Did Units: mg/K	%RPD esel Range	RPDLimit e Organics	

#### Qualifiers:

Analyte

Surr: DNOP

Client ID: BH-41

Prep Date: 3/18/2022

Diesel Range Organics (DRO)

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

Batch ID: 66266

Analysis Date: 3/21/2022

PQL

9.9

Result

58

3.8

Analyte detected in the associated Method Blank

RunNo: 86603 SeqNo: 3058425

95.2

77.2

LowLimit

36.1

51.1

Units: mg/Kg

154

141

%RPD

HighLimit

Estimated value

SPK value SPK Ref Val %REC

49.46

4.946

11.01

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

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**RPDLimit** 

Qual

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2203932** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: 2203932-003AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BH-41** Batch ID: **66266** RunNo: **86603** 

Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3058426 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	9.7	48.40	11.01	515	36.1	154	127	33.9	RS
Surr: DNOP	4.0		4.840		82.1	51.1	141	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203932 04-Apr-22** 

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66251 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66251 RunNo: 86597

Prep Date: 3/17/2022 Analysis Date: 3/19/2022 SeqNo: 3056691 Units: mg/Kg

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

Sample ID: Ics-66251 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66251 RunNo: 86597

2300

Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3056692 Units: mg/Kg

957.9

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 97.6 78.6 131 Surr: BFB S 2200 1000 216 70 130

Sample ID: 2203932-003ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BH-41 Batch ID: 66251 RunNo: 86597 Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3056694 Units: mg/Kg Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual

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

 Gasoline Range Organics (GRO)
 28
 4.8
 23.90
 0
 116
 70
 130

 Surr: BFB
 2300
 956.0
 246
 70
 130
 S

Sample ID: 2203932-003amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH-41 Batch ID: 66251 RunNo: 86597 Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3056695 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual 23.95 Gasoline Range Organics (GRO) 28 4.8 119 70 130 2.75 20

Sample ID: Ics-66237 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range LCSS Client ID: Batch ID: 66237 RunNo: 86599 Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3056824 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 78.6 131 S Surr: BFB 2300 1000 229 70 130

Sample ID: mb-66237 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: 66237 RunNo: 86599 Prep Date: 3/17/2022 Units: mg/Kg Analysis Date: 3/18/2022 SeqNo: 3056825 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

#### Qualifiers:

Surr: BFB

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

239

70

130

0

0

S

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203932 04-Apr-22** 

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66237 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66237 RunNo: 86599

Prep Date: 3/17/2022 Analysis Date: 3/18/2022 SeqNo: 3056825 Units: mg/Kg

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 114 70 130

#### Qualifiers:

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

Page 20 of 22

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2203932

04-Apr-22

**Client:** GHD Midland **Project:** Yates AS Battery

Sample ID: mb-66251 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 66251 RunNo: 86597 Prep Date: 3/17/2022 Analysis Date: 3/19/2022 SeqNo: 3056736 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene ND 0.025 ND 0.050 0.050 ND

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.98 1.000 98.2 70 130

0.9560

0.94

Sample ID: LCS-66251 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 66251 RunNo: 86597 Analysis Date: 3/18/2022 SeaNo: 3056737 Prep Date: 3/17/2022 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 80 120 0.91 0.025 U 91.4 Benzene Toluene 0.97 0.050 1.000 0 96.8 80 120 0 97.7 80 120 0.98 0.050 1.000 Ethylbenzene 0 98.2 Xylenes, Total 2.9 0.10 3.000 80 120 130 Surr: 4-Bromofluorobenzene 0.99 1.000 99.0 70

Sample ID: 2203932-004ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-42 Batch ID: 66251 RunNo: 86597 Prep Date: 3/17/2022 Analysis Date: 3/19/2022 SeqNo: 3056740 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.024 97.3 68.8 0.93 0.9560 120 Benzene n Toluene 1.0 0.048 0.9560 0 106 73.6 124 0.9560 0 109 72.7 129 Ethylbenzene 1.0 0.048 Xylenes, Total 3.1 0.096 2.868 0 108 75.7 126

TestCode: EPA Method 8021B: Volatiles Sample ID: 2203932-004amsd SampType: MSD Client ID: BH-42 Batch ID: 66251 RunNo: 86597 Prep Date: 3/17/2022 Analysis Date: 3/19/2022 SeqNo: 3056741 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.93 0.024 0.9579 0 97.0 68.8 120 0.189 20 Benzene Toluene 1.0 0.048 0.9579 0 104 73.6 124 1.06 20 Ethylbenzene 1.0 0.048 0.9579 0 107 72.7 129 1.75 20 Xylenes, Total 3.1 0.096 2.874 0 107 75.7 126 0.581 20 0 Surr: 4-Bromofluorobenzene 0.95 0.9579 99.0 70 130 0

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank

98 4

130

70

- Е Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2203932** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

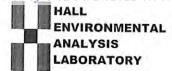
Sample ID: Ics-66237	SampT	ype: <b>LC</b>	s	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batcl	n ID: <b>66</b> 2	237	F	RunNo: 8	6599								
Prep Date: 3/17/2022	Analysis D	)ate: <b>3/</b>	18/2022	S	SeqNo: 3	056847	Units: mg/K							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.90	0.025	1.000	0	90.4	80	120							
Toluene	0.92	0.050	1.000	0	92.3	80	120							
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120							
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120							
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130							

Sample ID: mb-66237	Samp1	Гуре: <b>МЕ</b>	BLK	Tes						
Client ID: PBS	Batc	h ID: <b>66</b>	237	F	RunNo: 8	6599				
Prep Date: 3/17/2022	Analysis [	Date: <b>3/</b>	18/2022	8	SeqNo: 3	056848	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name: GHD Midland	Work Order Num	nber: 2203932		RcptNo: 1
Received By: Cheyenne Cason	3/17/2022 7:00:00	AM	Chenl	
Completed By: Tracy Casarrubias	3/17/2022 8:49:13	AM		
	122			
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗆	Not Present
2. How was the sample delivered?		Courier		
<u>Log In</u>				
3. Was an attempt made to cool the sa	amples?	Yes 🔽	No 🗆	NA 🗆
4. Were all samples received at a temp	perature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient sample volume for indicate	ed test(s)?	Yes 🗸	No 🗆	
7. Are samples (except VOA and ONG	) properly preserved?	Yes 🗸	No 🗆	
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗆
9. Received at least 1 vial with headspa	ace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any sample containers receive	ed broken?	Yes	No 🔽	# of preserved
11. Does paperwork match bottle labels' (Note discrepancies on chain of cust		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on C	chain of Custody?	Yes 🗸	No 🗆	Adjusted?
3. Is it clear what analyses were reques		Yes 🗸	No 🗆	1100 3/1
<ol><li>Were all holding times able to be me (If no, notify customer for authorization)</li></ol>		Yes 🗸	No 🗆	Checked by: KVG S
Special Handling (if applicable)				
15. Was client notified of all discrepanci	es with this order?	Yes 🗌	No 🗆	NA 🗹
Person Notified:	Date:			
By Whom:	Via:	eMail P	hone  Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C Conditi		Seal Date	Signed By	
1 3.9 Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107.					### (8023)  ### ### ### ### ### ### #### #### ##					88 88 17	4											Remarks: Please email: Chase Settle@eogresources.com:		Matthew.Laughlin@ghd.com; Along with Becky Haskell listed above.  Direct Bill to EOG Chase Settle					
Turn-Around Time:	G Standard A Rush 5 DAV		Tate AS Battery	Project #:	11228401	Project Manager:	Booky Haskell	Tom Larson	5	On loe: X Yes	J. Sie	Cooler Temptinguing on: 3,8 + 0 11 = 3,8 4	Container Preservative HEAL No. Type 770 2027			200	700	Vec	200	170	800	900	010			Via:	WALAMAAAAAA HIGTZ BAD	Via: Date	100 WWWW. Direct Bill to EOG Chase Settle
Chain-of-Custody Record			25	324 W. Main St. Suite 108, Artesia NM 88210	(505)377-4218	Becky. Haskell@ahd.com	1000	□ Level 4 (Full Validation)	☐ Az Compliance	□ Other			Matrix Sample Name	5 84.39	Vh-H9	BH-41	84-42	84-43	PH-44	BH-43	M-48	194-47	84-48	BH-49	J 8M-50		MITCH Clerrens Mechal Can	Relinduished by:	ummen
Chain	Client: GHD		Mailing Address:	324 W. Main St	Phone #:	email or Fax#:	2A/QC Package:	□ Standard	Accreditation:	□ NELAC	☐ EDD (Type)		Date Time	031522 305	1000	1405	lato	(0)	810)	000)	(025)	(0)	1035	0/00		Time:		1600 19m	and A rate

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ENVI	LYSIS	www.hallenvironmental.com	- Albuquer	le al	Alialysis keollest		' <sup>†</sup> Od	J ' <sup>2</sup> (			(A	F, Br, 10 (VC 70 (Se	28				+		-						il: Chase_Sed.com; Zach	ughlin@ghd.com: Along with Be listed above. Direct Bill to EOG Chase Settle
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Z Standard Z Rush O DA		Tate AS Battery	Project #:	[12284n]	Project Manager:	Becky Haskell	Tom Larson	Sampler: Zach Comino		lers: (	Cooler Temptinetating cry. 6 3.840.1 = 3.9	Container Preservative HEAL No.	246		710	210	210								7	Date
t: GHD	ď.		324 W. Main St. Suite 108, Artesia NM 88210		Becky. Haskell@ghd.com		☐ Level 4 (Full Validation) To	mpliance		9#	8	Sample Name	84-5)		3M-36	814-53	BH-54								miteral Com	Reco
СНБ		Mailing Address:	Main St. Suite	; (505)3			lard	-	\C □ Other	(Type)	7.	Time Matrix	(050 5	1000	222	(100	(10)					1	1	Time: Relinquished by:		Ime: Relinquished by:    Pro   CLLLL
Client: GHD		Mailing /	324 W. I	Phone #:	email or Fax#;	QA/QC Package:	□ Standard	Accreditation:	□ NELAC	O EDD		Date	122/20	_			<b>→</b>			T				Date: Ti	d	5/14/22 1910



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

April 04, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates AS Battery OrderNo.: 2203990

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 13 sample(s) on 3/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2203990

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-55

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 10:00:00 AM

 Lab ID:
 2203990-001
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	450	60	mg/Kg	20	3/23/2022 4:48:29 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	30	9.7	mg/Kg	1	3/23/2022 4:09:09 PM	66285
Motor Oil Range Organics (MRO)	55	48	mg/Kg	1	3/23/2022 4:09:09 PM	66285
Surr: DNOP	139	51.1-141	%Rec	1	3/23/2022 4:09:09 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/21/2022 11:33:42 AM	66274
Surr: BFB	108	37.7-212	%Rec	1	3/21/2022 11:33:42 AM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 11:33:42 AM	66274
Toluene	ND	0.048	mg/Kg	1	3/21/2022 11:33:42 AM	66274
Ethylbenzene	ND	0.048	mg/Kg	1	3/21/2022 11:33:42 AM	66274
Xylenes, Total	ND	0.097	mg/Kg	1	3/21/2022 11:33:42 AM	66274
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	3/21/2022 11:33:42 AM	66274

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

Qualifiers:

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

Page 1 of 17

# Analytical Report Lab Order 2203990

Date Reported: 4/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-56

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 10:05:00 AM

 Lab ID:
 2203990-002
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4800	300	mg/Kg	100	0 3/24/2022 1:16:00 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/22/2022 4:34:58 PM	66285
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/22/2022 4:34:58 PM	66285
Surr: DNOP	103	51.1-141	%Rec	1	3/22/2022 4:34:58 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/21/2022 12:44:30 PM	66274
Surr: BFB	109	37.7-212	%Rec	1	3/21/2022 12:44:30 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 12:44:30 PM	66274
Toluene	ND	0.048	mg/Kg	1	3/21/2022 12:44:30 PM	66274
Ethylbenzene	ND	0.048	mg/Kg	1	3/21/2022 12:44:30 PM	66274
Xylenes, Total	ND	0.096	mg/Kg	1	3/21/2022 12:44:30 PM	66274
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	3/21/2022 12:44:30 PM	66274

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

Qualifiers:

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

Page 2 of 17

Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-57

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 10:10:00 AM

 Lab ID:
 2203990-003
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	5700	300	mg/Kg	100	3/24/2022 1:28:25 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/22/2022 4:45:41 PM	66285
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/22/2022 4:45:41 PM	66285
Surr: DNOP	89.9	51.1-141	%Rec	1	3/22/2022 4:45:41 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/21/2022 1:54:53 PM	66274
Surr: BFB	109	37.7-212	%Rec	1	3/21/2022 1:54:53 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 1:54:53 PM	66274
Toluene	ND	0.047	mg/Kg	1	3/21/2022 1:54:53 PM	66274
Ethylbenzene	ND	0.047	mg/Kg	1	3/21/2022 1:54:53 PM	66274
Xylenes, Total	ND	0.095	mg/Kg	1	3/21/2022 1:54:53 PM	66274
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	3/21/2022 1:54:53 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-58

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 12:15:00 PM

 Lab ID:
 2203990-004
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	260	60	mg/Kg	20	3/23/2022 5:25:43 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	290	49	mg/Kg	5	3/23/2022 6:49:15 PM	66285
Motor Oil Range Organics (MRO)	480	250	mg/Kg	5	3/23/2022 6:49:15 PM	66285
Surr: DNOP	93.2	51.1-141	%Rec	5	3/23/2022 6:49:15 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2022 2:18:16 PM	66274
Surr: BFB	109	37.7-212	%Rec	1	3/21/2022 2:18:16 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/21/2022 2:18:16 PM	66274
Toluene	ND	0.046	mg/Kg	1	3/21/2022 2:18:16 PM	66274
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2022 2:18:16 PM	66274
Xylenes, Total	ND	0.091	mg/Kg	1	3/21/2022 2:18:16 PM	66274
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	3/21/2022 2:18:16 PM	66274

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

Qualifiers:

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

Page 4 of 17

Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-59

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 12:20:00 PM

 Lab ID:
 2203990-005
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	740	60	mg/Kg	20	3/23/2022 5:38:08 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	59	9.0	mg/Kg	1	3/23/2022 5:34:45 PM	66285
Motor Oil Range Organics (MRO)	78	45	mg/Kg	1	3/23/2022 5:34:45 PM	66285
Surr: DNOP	82.8	51.1-141	%Rec	1	3/23/2022 5:34:45 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2022 2:41:46 PM	66274
Surr: BFB	107	37.7-212	%Rec	1	3/21/2022 2:41:46 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/21/2022 2:41:46 PM	66274
Toluene	ND	0.046	mg/Kg	1	3/21/2022 2:41:46 PM	66274
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2022 2:41:46 PM	66274
Xylenes, Total	ND	0.092	mg/Kg	1	3/21/2022 2:41:46 PM	66274
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	3/21/2022 2:41:46 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-60

**Project:** Yates AS Battery
 Collection Date: 3/16/2022 12:25:00 PM

 **Lab ID:** 2203990-006
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	410	60	mg/Kg	20	3/23/2022 5:50:33 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/22/2022 5:17:45 PM	66285
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/22/2022 5:17:45 PM	66285
Surr: DNOP	89.1	51.1-141	%Rec	1	3/22/2022 5:17:45 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2022 3:05:14 PM	66274
Surr: BFB	110	37.7-212	%Rec	1	3/21/2022 3:05:14 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/21/2022 3:05:14 PM	66274
Toluene	ND	0.049	mg/Kg	1	3/21/2022 3:05:14 PM	66274
Ethylbenzene	ND	0.049	mg/Kg	1	3/21/2022 3:05:14 PM	66274
Xylenes, Total	ND	0.098	mg/Kg	1	3/21/2022 3:05:14 PM	66274
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	3/21/2022 3:05:14 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-61

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 2:00:00 PM

 Lab ID:
 2203990-007
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	950	60	mg/Kg	20	3/23/2022 6:27:47 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/22/2022 5:28:25 PM	66285
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/22/2022 5:28:25 PM	66285
Surr: DNOP	89.2	51.1-141	%Rec	1	3/22/2022 5:28:25 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2022 4:39:48 PM	66274
Surr: BFB	111	37.7-212	%Rec	1	3/21/2022 4:39:48 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/21/2022 4:39:48 PM	66274
Toluene	ND	0.046	mg/Kg	1	3/21/2022 4:39:48 PM	66274
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2022 4:39:48 PM	66274
Xylenes, Total	ND	0.093	mg/Kg	1	3/21/2022 4:39:48 PM	66274
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	3/21/2022 4:39:48 PM	66274

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

Qualifiers:

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

Paparting Limit

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Lab Order **2203990**Date Reported: **4/4/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-62

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 2:05:00 PM

 Lab ID:
 2203990-008
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1000	59	mg/Kg	20	3/23/2022 6:40:13 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/22/2022 5:39:03 PM	66285
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/22/2022 5:39:03 PM	66285
Surr: DNOP	8.08	51.1-141	%Rec	1	3/22/2022 5:39:03 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/21/2022 5:03:29 PM	66274
Surr: BFB	109	37.7-212	%Rec	1	3/21/2022 5:03:29 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 5:03:29 PM	66274
Toluene	ND	0.047	mg/Kg	1	3/21/2022 5:03:29 PM	66274
Ethylbenzene	ND	0.047	mg/Kg	1	3/21/2022 5:03:29 PM	66274
Xylenes, Total	ND	0.095	mg/Kg	1	3/21/2022 5:03:29 PM	66274
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	3/21/2022 5:03:29 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-63

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 2:10:00 PM

 Lab ID:
 2203990-009
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	750	60	mg/Kg	20	3/23/2022 6:52:37 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	62	9.4	mg/Kg	1	3/23/2022 4:52:04 PM	66285
Motor Oil Range Organics (MRO)	86	47	mg/Kg	1	3/23/2022 4:52:04 PM	66285
Surr: DNOP	94.6	51.1-141	%Rec	1	3/23/2022 4:52:04 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2022 5:27:01 PM	66274
Surr: BFB	107	37.7-212	%Rec	1	3/21/2022 5:27:01 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/21/2022 5:27:01 PM	66274
Toluene	ND	0.046	mg/Kg	1	3/21/2022 5:27:01 PM	66274
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2022 5:27:01 PM	66274
Xylenes, Total	ND	0.093	mg/Kg	1	3/21/2022 5:27:01 PM	66274
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	3/21/2022 5:27:01 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-64

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 3:00:00 PM

 Lab ID:
 2203990-010
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	580	60	mg/Kg	20	3/23/2022 7:05:02 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/22/2022 6:00:17 PM	66285
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/22/2022 6:00:17 PM	66285
Surr: DNOP	106	51.1-141	%Rec	1	3/22/2022 6:00:17 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/21/2022 5:50:32 PM	66274
Surr: BFB	109	37.7-212	%Rec	1	3/21/2022 5:50:32 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 5:50:32 PM	66274
Toluene	ND	0.047	mg/Kg	1	3/21/2022 5:50:32 PM	66274
Ethylbenzene	ND	0.047	mg/Kg	1	3/21/2022 5:50:32 PM	66274
Xylenes, Total	ND	0.094	mg/Kg	1	3/21/2022 5:50:32 PM	66274
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	3/21/2022 5:50:32 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-65

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 3:05:00 PM

 Lab ID:
 2203990-011
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	470	60	mg/Kg	20	3/23/2022 7:17:26 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/22/2022 6:21:24 PM	66285
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/22/2022 6:21:24 PM	66285
Surr: DNOP	78.8	51.1-141	%Rec	1	3/22/2022 6:21:24 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/21/2022 6:13:57 PM	66274
Surr: BFB	110	37.7-212	%Rec	1	3/21/2022 6:13:57 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 6:13:57 PM	66274
Toluene	ND	0.048	mg/Kg	1	3/21/2022 6:13:57 PM	66274
Ethylbenzene	ND	0.048	mg/Kg	1	3/21/2022 6:13:57 PM	66274
Xylenes, Total	ND	0.096	mg/Kg	1	3/21/2022 6:13:57 PM	66274
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	3/21/2022 6:13:57 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-66

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 3:10:00 PM

 Lab ID:
 2203990-012
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	280	60	mg/Kg	20	3/23/2022 7:29:51 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/22/2022 6:32:00 PM	66285
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/22/2022 6:32:00 PM	66285
Surr: DNOP	85.4	51.1-141	%Rec	1	3/22/2022 6:32:00 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2022 6:37:34 PM	66274
Surr: BFB	111	37.7-212	%Rec	1	3/21/2022 6:37:34 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/21/2022 6:37:34 PM	66274
Toluene	ND	0.046	mg/Kg	1	3/21/2022 6:37:34 PM	66274
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2022 6:37:34 PM	66274
Xylenes, Total	ND	0.091	mg/Kg	1	3/21/2022 6:37:34 PM	66274
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/21/2022 6:37:34 PM	66274

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

Qualifiers:

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

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Date Reported: 4/4/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-10

 Project:
 Yates AS Battery
 Collection Date: 3/16/2022 5:00:00 PM

 Lab ID:
 2203990-013
 Matrix: SOIL
 Received Date: 3/17/2022 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	120	61	mg/Kg	20	3/23/2022 7:42:16 PM	66356
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	72	9.6	mg/Kg	1	3/23/2022 5:13:25 PM	66285
Motor Oil Range Organics (MRO)	160	48	mg/Kg	1	3/23/2022 5:13:25 PM	66285
Surr: DNOP	85.8	51.1-141	%Rec	1	3/23/2022 5:13:25 PM	66285
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2022 7:01:13 PM	66274
Surr: BFB	114	37.7-212	%Rec	1	3/21/2022 7:01:13 PM	66274
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2022 7:01:13 PM	66274
Toluene	ND	0.049	mg/Kg	1	3/21/2022 7:01:13 PM	66274
Ethylbenzene	0.075	0.049	mg/Kg	1	3/21/2022 7:01:13 PM	66274
Xylenes, Total	0.36	0.098	mg/Kg	1	3/21/2022 7:01:13 PM	66274
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	3/21/2022 7:01:13 PM	66274

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

Qualifiers:

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

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## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203990** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: MB-66356 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66356 RunNo: 86715

Prep Date: 3/23/2022 Analysis Date: 3/23/2022 SeqNo: 3061572 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66356 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66356 RunNo: 86715

Prep Date: 3/23/2022 Analysis Date: 3/23/2022 SeqNo: 3061573 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.9 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

Batch ID: 66285

Analysis Date: 3/23/2022

PQL

9.8

Result

83

5.1

WO#: **2203990** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Client ID: BH-55

Prep Date: 3/21/2022

Diesel Range Organics (DRO)

Surr: DNOP

Sample ID: LCS-66285	Sampl	ype: LC	I estCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	n ID: <b>66</b> 2	285	F	RunNo: 8	6644					
Prep Date: 3/21/2022	Analysis D	Analysis Date: 3/22		S	SeqNo: 3	058999	Units: mg/k	<b>(</b> g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	68.9	135				
Surr: DNOP	3.7		5.000		74.7	51.1	141				
Sample ID: MB-66285	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rango	e Organics		
Client ID: PBS	Batch	n ID: <b>66</b> 2	285	F	RunNo: 8	6644					
Prep Date: 3/21/2022	Analysis D	)ate: <b>3/</b>	22/2022	S	SeqNo: 3	059002	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Dongs Organics (MDO)											
wotor Oil Range Organics (WRO)	ND	50									
Motor Oil Range Organics (MRO) Surr: DNOP	ND 8.8	50	10.00		88.2	51.1	141				

Surr: DNOP	5.4		4.902		109	51.1	141			
Sample ID: 2203990-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: BH-55	Batch	ID: <b>66</b> 2	285	F	RunNo: 80	6676				
Prep Date: 3/21/2022	Analysis Da	ate: 3/	23/2022	S	SeqNo: 30	061298	Units: mg/h	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	83	9.5	47.35	30.40	112	36.1	154	1.02	33.9	

SPK value SPK Ref Val %REC

30.40

49.02

4.735

RunNo: 86676

107

108

SeqNo: 3061297

LowLimit

36.1

51.1

Units: mg/Kg

154

141

%RPD

0

**RPDLimit** 

0

Qual

HighLimit

#### Qualifiers:

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

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#### **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

2200

WO#: **2203990** 

04-Apr-22

Client: GHD Midland
Project: Yates AS Battery

Sample ID: mb-66274 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057878 Units: mq/Kq PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) NΩ 5.0 Surr: BFB 1100 1000 111 37.7 212

Sample ID: Ics-66274 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66274 RunNo: 86621

Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057879 Units: mg/Kg

967.1

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.3 Gasoline Range Organics (GRO) 28 5.0 25.00 O 111 137 Surr: BFB 2400 37 7 S 1000 238 212

Sample ID: 2203990-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BH-55 Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057881 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 26 4.8 24.15 0 107 70 130 Surr: BFB S 2300 966.2 235 37.7 212

Sample ID: 2203990-001amsd TestCode: EPA Method 8015D: Gasoline Range SampType: MSD Client ID: BH-55 Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057882 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 26 4.8 24.18 107 70 130 0.432 20

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

231

37.7

212

0

0

S

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

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#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

0.98

WO#: 2203990

04-Apr-22

**Client:** GHD Midland **Project:** Yates AS Battery

Sample ID: mb-66274 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057920 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 0.025 ND 0.050 0.050 ND

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.8 70 130

0.9606

Sample ID: LCS-66274 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 66274 RunNo: 86621 Analysis Date: 3/21/2022 SeqNo: 3057921 Prep Date: 3/18/2022 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 80 120 0.91 U 90.7 Benzene Toluene 0.96 0.050 1.000 0 96.4 80 120 0.98 0.050 0 97.7 80 120 1.000 Ethylbenzene 0 98.2 Xylenes, Total 2.9 0.10 3.000 80 120 130 Surr: 4-Bromofluorobenzene 1.0 1.000 99 7 70

Sample ID: 2203990-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-56 Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057924 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.78 0.024 81.3 68.8 0.9606 n 120 Benzene Toluene 0.86 0.048 0.9606 0.01293 88.1 73.6 124 0.87 0.9606 0 90.4 72.7 129 Ethylbenzene 0.048 Xylenes, Total 2.6 0.096 2.882 0 90.8 75.7 126

TestCode: EPA Method 8021B: Volatiles Sample ID: 2203990-002amsd SampType: MSD Client ID: BH-56 Batch ID: 66274 RunNo: 86621 Prep Date: 3/18/2022 Analysis Date: 3/21/2022 SeqNo: 3057925 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.83 0.024 0.9569 0 87.1 68.8 120 6.48 20 Benzene Toluene 0.89 0.048 0.9569 0.01293 91.6 73.6 124 3.53 20 Ethylbenzene 0.91 0.048 0.9569 n 95.6 72.7 129 5 17 20 Xylenes, Total 2.7 0.096 2.871 0 94.9 75.7 126 4.06 20 0 Surr: 4-Bromofluorobenzene 0.96 0.9569 101 70 130 0

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank

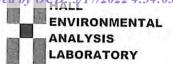
102

130

70

- Е Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name:	GHD Midland	Work Order Num	ber: 2203990		RcptNo: 1	
Received By:	Cheyenne Cason	3/17/2022 7:25:00	AM	Cheel		
Completed By:	Sean Livingston	3/18/2022 8:22:27	AM	Chul	-1-	
Reviewed By:	Ja3/18/22			)U1	John	
Chain of Cus	<u>stody</u>					
1. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
<ol><li>Was an atten</li></ol>	npt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗆	
4. Were all sam	ples received at a temperati	ure of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated tes	st(s)?	Yes 🗸	No 🗌		
7. Are samples (	(except VOA and ONG) prop	perly preserved?	Yes 🗸	No 🗌		
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
0. Were any sar	mple containers received bro	oken?	Yes	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🔽	No 🗆	bottles checked for pH:	unless noted)
2. Are matrices of	correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
	t analyses were requested?		Yes 🗸	No 🗆		
	ng times able to be met? ustomer for authorization.)		Yes 🔽	No 🗆	Checked by: Cu	e 3/18/ce
pecial Handl	ing (if applicable)					
	otified of all discrepancies wi	th this order?	Yes	No 🗆	NA 🗹	
Person	Notified:	Date:				
By Who	om:	Via:	eMail	Phone  Fax	In Person	
Regardi						
Client Ir	nstructions:					
16. Additional rer	marks:					
7. Cooler Infor	mation					
Cooler No	The second secon	Seal Intact Seal No	Seal Date	Signed By		
1	1.8 Good	Jean Million Geal 140	Geal Date	Signed By		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

April 05, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates AS Fee Battery OrderNo.: 2203B39

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 32 sample(s) on 3/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2203B39**Date Reported: **4/5/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-67

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 9:40:00 AM

 Lab ID:
 2203B39-001
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	170	60	mg/Kg	20	3/28/2022 10:18:50 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/24/2022 12:07:07 PM	66339
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/24/2022 12:07:07 PM	66339
Surr: DNOP	83.2	51.1-141	%Rec	1	3/24/2022 12:07:07 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/23/2022 7:37:00 PM	66332
Surr: BFB	106	37.7-212	%Rec	1	3/23/2022 7:37:00 PM	66332
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/23/2022 7:37:00 PM	66332
Toluene	ND	0.048	mg/Kg	1	3/23/2022 7:37:00 PM	66332
Ethylbenzene	ND	0.048	mg/Kg	1	3/23/2022 7:37:00 PM	66332
Xylenes, Total	ND	0.097	mg/Kg	1	3/23/2022 7:37:00 PM	66332
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	3/23/2022 7:37:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39** 

Date Reported: 4/5/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-68

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 9:45:00 AM

 Lab ID:
 2203B39-002
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	250	59	mg/Kg	20	3/28/2022 10:56:04 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/24/2022 12:17:38 PM	66339
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/24/2022 12:17:38 PM	66339
Surr: DNOP	77.9	51.1-141	%Rec	1	3/24/2022 12:17:38 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/23/2022 8:36:00 PM	66332
Surr: BFB	106	37.7-212	%Rec	1	3/23/2022 8:36:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	3/23/2022 8:36:00 PM	66332
Toluene	ND	0.050	mg/Kg	1	3/23/2022 8:36:00 PM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/23/2022 8:36:00 PM	66332
Xylenes, Total	ND	0.099	mg/Kg	1	3/23/2022 8:36:00 PM	66332
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	3/23/2022 8:36:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-69

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 9:50:00 AM

 Lab ID:
 2203B39-003
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	120	60	mg/Kg	20	3/28/2022 11:08:28 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/24/2022 12:28:11 PM	66339
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/24/2022 12:28:11 PM	66339
Surr: DNOP	80.7	51.1-141	%Rec	1	3/24/2022 12:28:11 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2022 8:56:00 PM	66332
Surr: BFB	106	37.7-212	%Rec	1	3/23/2022 8:56:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/23/2022 8:56:00 PM	66332
Toluene	ND	0.049	mg/Kg	1	3/23/2022 8:56:00 PM	66332
Ethylbenzene	ND	0.049	mg/Kg	1	3/23/2022 8:56:00 PM	66332
Xylenes, Total	ND	0.097	mg/Kg	1	3/23/2022 8:56:00 PM	66332
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	3/23/2022 8:56:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39** 

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-70

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 9:55:00 AM

 Lab ID:
 2203B39-004
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1400	60	mg/Kg	20	3/28/2022 11:20:52 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/24/2022 12:38:46 PM	66339
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/24/2022 12:38:46 PM	66339
Surr: DNOP	78.9	51.1-141	%Rec	1	3/24/2022 12:38:46 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2022 9:15:00 PM	66332
Surr: BFB	111	37.7-212	%Rec	1	3/23/2022 9:15:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/23/2022 9:15:00 PM	66332
Toluene	ND	0.049	mg/Kg	1	3/23/2022 9:15:00 PM	66332
Ethylbenzene	ND	0.049	mg/Kg	1	3/23/2022 9:15:00 PM	66332
Xylenes, Total	ND	0.098	mg/Kg	1	3/23/2022 9:15:00 PM	66332
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	3/23/2022 9:15:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

\_\_\_\_\_

CLIENT: GHD Midland Client Sample ID: BH-71

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:00:00 AM

 Lab ID:
 2203B39-005
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	1800	60	mg/Kg	20	3/28/2022 11:33:17 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/24/2022 12:49:21 PM	66339
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/24/2022 12:49:21 PM	66339
Surr: DNOP	94.8	51.1-141	%Rec	1	3/24/2022 12:49:21 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/23/2022 9:35:00 PM	66332
Surr: BFB	102	37.7-212	%Rec	1	3/23/2022 9:35:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	3/23/2022 9:35:00 PM	66332
Toluene	ND	0.050	mg/Kg	1	3/23/2022 9:35:00 PM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/23/2022 9:35:00 PM	66332
Xylenes, Total	ND	0.099	mg/Kg	1	3/23/2022 9:35:00 PM	66332
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	3/23/2022 9:35:00 PM	66332

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

Qualifiers:

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

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Lab Order 2203B39

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-72

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:05:00 AM

 Lab ID:
 2203B39-006
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1900	60		mg/Kg	20	3/28/2022 11:45:42 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	SB
Diesel Range Organics (DRO)	5800	200		mg/Kg	20	3/24/2022 5:58:55 PM	66339
Motor Oil Range Organics (MRO)	3300	980		mg/Kg	20	3/24/2022 5:58:55 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:58:55 PM	66339
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	85	25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Surr: BFB	163	37.7-212		%Rec	5	3/24/2022 2:45:00 PM	66332
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Toluene	ND	0.25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Ethylbenzene	0.32	0.25		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Xylenes, Total	2.1	0.50		mg/Kg	5	3/24/2022 2:45:00 PM	66332
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	3/24/2022 2:45:00 PM	66332

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

Qualifiers:

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

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Lab Order 2203B39

Date Reported: 4/5/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-73

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:35:00 AM

 Lab ID:
 2203B39-007
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1300	60		mg/Kg	20	3/29/2022 12:22:57 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	2600	190		mg/Kg	20	3/24/2022 5:37:23 PM	66339
Motor Oil Range Organics (MRO)	1400	950		mg/Kg	20	3/24/2022 5:37:23 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:37:23 PM	66339
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	180	25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Surr: BFB	249	37.7-212	S	%Rec	5	3/24/2022 3:05:00 PM	66332
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Toluene	ND	0.25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Ethylbenzene	3.0	0.25		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Xylenes, Total	7.2	0.50		mg/Kg	5	3/24/2022 3:05:00 PM	66332
Surr: 4-Bromofluorobenzene	145	70-130	S	%Rec	5	3/24/2022 3:05:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39** 

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-74

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:40:00 AM

 Lab ID:
 2203B39-008
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	290	60	mg/Kg	20	3/29/2022 12:35:22 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	79	9.6	mg/Kg	1	3/25/2022 4:12:05 PM	66339
Motor Oil Range Organics (MRO)	160	48	mg/Kg	1	3/25/2022 4:12:05 PM	66339
Surr: DNOP	104	51.1-141	%Rec	1	3/25/2022 4:12:05 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/23/2022 11:33:00 PM	66332
Surr: BFB	105	37.7-212	%Rec	1	3/23/2022 11:33:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	3/23/2022 11:33:00 PM	66332
Toluene	ND	0.050	mg/Kg	1	3/23/2022 11:33:00 PM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/23/2022 11:33:00 PM	66332
Xylenes, Total	ND	0.099	mg/Kg	1	3/23/2022 11:33:00 PM	66332
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	3/23/2022 11:33:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-75

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:45:00 AM

 Lab ID:
 2203B39-009
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	860	60	mg/Kg	20	3/29/2022 12:47:46 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	SB
Diesel Range Organics (DRO)	40	9.8	mg/Kg	1	3/24/2022 1:53:26 PM	66339
Motor Oil Range Organics (MRO)	79	49	mg/Kg	1	3/24/2022 1:53:26 PM	66339
Surr: DNOP	81.5	51.1-141	%Rec	1	3/24/2022 1:53:26 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/23/2022 11:53:00 PM	66332
Surr: BFB	107	37.7-212	%Rec	1	3/23/2022 11:53:00 PM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	3/23/2022 11:53:00 PM	66332
Toluene	ND	0.050	mg/Kg	1	3/23/2022 11:53:00 PM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/23/2022 11:53:00 PM	66332
Xylenes, Total	ND	0.099	mg/Kg	1	3/23/2022 11:53:00 PM	66332
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	3/23/2022 11:53:00 PM	66332

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

Qualifiers:

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

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Lab Order **2203B39** 

Date Reported: 4/5/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-76

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:50:00 AM

 Lab ID:
 2203B39-010
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	320	60		mg/Kg	20	3/29/2022 1:25:00 AM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	810	190		mg/Kg	20	3/24/2022 5:48:07 PM	66339
Motor Oil Range Organics (MRO)	980	970		mg/Kg	20	3/24/2022 5:48:07 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	20	3/24/2022 5:48:07 PM	66339
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Surr: BFB	114	37.7-212		%Rec	1	3/24/2022 12:12:00 AM	66332
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 12:12:00 AM	66332
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/24/2022 12:12:00 AM	66332

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

Qualifiers:

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

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**CLIENT:** GHD Midland

#### **Analytical Report**

Lab Order **2203B39** 

Date Reported: 4/5/2022

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-77

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 10:55:00 AM

 Lab ID:
 2203B39-011
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	3100	150		mg/Kg	50	3/29/2022 2:20:04 PM	66436
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	5200	96		mg/Kg	10	3/24/2022 4:43:11 PM	66339
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	3/24/2022 4:43:11 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	10	3/24/2022 4:43:11 PM	66339
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	210	24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Surr: BFB	271	37.7-212	S	%Rec	5	3/24/2022 3:25:00 PM	66332
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Toluene	0.51	0.24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Ethylbenzene	3.3	0.24		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Xylenes, Total	8.6	0.49		mg/Kg	5	3/24/2022 3:25:00 PM	66332
Surr: 4-Bromofluorobenzene	155	70-130	S	%Rec	5	3/24/2022 3:25:00 PM	66332

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

Qualifiers:

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

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Date Reported: 4/5/2022

Lab Order **2203B39** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-78

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:00:00 AM

 Lab ID:
 2203B39-012
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1700	60	mg/Kg	20	3/28/2022 2:28:32 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	270	48	mg/Kg	5	3/25/2022 4:55:00 PM	66339
Motor Oil Range Organics (MRO)	530	240	mg/Kg	5	3/25/2022 4:55:00 PM	66339
Surr: DNOP	101	51.1-141	%Rec	5	3/25/2022 4:55:00 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2022 12:52:00 AM	66332
Surr: BFB	103	37.7-212	%Rec	1	3/24/2022 12:52:00 AM	66332
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	3/24/2022 12:52:00 AM	66332
Toluene	ND	0.050	mg/Kg	1	3/24/2022 12:52:00 AM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2022 12:52:00 AM	66332
Xylenes, Total	ND	0.10	mg/Kg	1	3/24/2022 12:52:00 AM	66332
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	3/24/2022 12:52:00 AM	66332

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-79

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:05:00 AM

 Lab ID:
 2203B39-013
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 1000 60 mg/Kg 20 3/28/2022 2:40:53 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 16 9.4 mg/Kg 3/24/2022 12:59:58 PM 66339 Motor Oil Range Organics (MRO) ND 3/24/2022 12:59:58 PM 66339 47 mg/Kg 1 Surr: DNOP 85.3 51.1-141 %Rec 3/24/2022 12:59:58 PM 66339 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 3/24/2022 1:11:00 AM 66332 49 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 3/24/2022 1:11:00 AM 66332 **EPA METHOD 8021B: VOLATILES** Analyst: BRM ND 0.024 3/24/2022 1:11:00 AM 66332 Benzene mg/Kg 1 Toluene ND 0.049 mg/Kg 3/24/2022 1:11:00 AM 66332 Ethylbenzene ND 0.049 mg/Kg 1 3/24/2022 1:11:00 AM 66332 Xylenes, Total ND 0.098 mg/Kg 3/24/2022 1:11:00 AM 66332 Surr: 4-Bromofluorobenzene 70-130 66332 87.0 %Rec 3/24/2022 1:11:00 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2203B39

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-80

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:10:00 AM

 Lab ID:
 2203B39-014
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	120	60	mg/Kg	20	3/28/2022 2:53:14 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/24/2022 1:10:36 PM	66339
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/24/2022 1:10:36 PM	66339
Surr: DNOP	81.9	51.1-141	%Rec	1	3/24/2022 1:10:36 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2022 1:31:00 AM	66332
Surr: BFB	101	37.7-212	%Rec	1	3/24/2022 1:31:00 AM	66332
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	3/24/2022 1:31:00 AM	66332
Toluene	ND	0.050	mg/Kg	1	3/24/2022 1:31:00 AM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2022 1:31:00 AM	66332
Xylenes, Total	ND	0.099	mg/Kg	1	3/24/2022 1:31:00 AM	66332
Surr: 4-Bromofluorobenzene	86.8	70-130	%Rec	1	3/24/2022 1:31:00 AM	66332

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

Qualifiers:

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

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**CLIENT:** GHD Midland

#### **Analytical Report**

Lab Order **2203B39**Date Reported: **4/5/2022** 

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-81

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:15:00 AM

 Lab ID:
 2203B39-015
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 280 60 mg/Kg 20 3/28/2022 3:05:34 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 23 9.5 mg/Kg 3/24/2022 1:32:00 PM 66339 Motor Oil Range Organics (MRO) 49 48 mg/Kg 1 3/24/2022 1:32:00 PM 66339 Surr: DNOP 87.0 3/24/2022 1:32:00 PM 66339 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 4.8 3/24/2022 1:51:00 AM 66332 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 3/24/2022 1:51:00 AM 66332 **EPA METHOD 8021B: VOLATILES** Analyst: BRM ND 0.024 3/24/2022 1:51:00 AM 66332 Benzene mg/Kg 1 Toluene ND 0.048 mg/Kg 3/24/2022 1:51:00 AM 66332 Ethylbenzene ND 0.048 mg/Kg 1 3/24/2022 1:51:00 AM 66332 Xylenes, Total ND 0.097 mg/Kg 3/24/2022 1:51:00 AM 66332 66332 Surr: 4-Bromofluorobenzene 86.9 70-130 %Rec 3/24/2022 1:51:00 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203B39** 

Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-82

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:30:00 AM

 Lab ID:
 2203B39-016
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	300	60	mg/Kg	20	3/28/2022 3:17:55 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	260	49	mg/Kg	5	3/28/2022 2:11:50 PM	66339
Motor Oil Range Organics (MRO)	400	250	mg/Kg	5	3/28/2022 2:11:50 PM	66339
Surr: DNOP	89.3	51.1-141	%Rec	5	3/28/2022 2:11:50 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2022 2:10:00 AM	66332
Surr: BFB	101	37.7-212	%Rec	1	3/24/2022 2:10:00 AM	66332
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	3/24/2022 2:10:00 AM	66332
Toluene	ND	0.049	mg/Kg	1	3/24/2022 2:10:00 AM	66332
Ethylbenzene	ND	0.049	mg/Kg	1	3/24/2022 2:10:00 AM	66332
Xylenes, Total	ND	0.097	mg/Kg	1	3/24/2022 2:10:00 AM	66332
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	3/24/2022 2:10:00 AM	66332

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

Qualifiers:

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

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Lab Order 2203B39

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-83

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:35:00 AM

 Lab ID:
 2203B39-017
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1900	60		mg/Kg	20	3/28/2022 3:30:15 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	530	98		mg/Kg	10	3/24/2022 5:15:45 PM	66339
Motor Oil Range Organics (MRO)	540	490		mg/Kg	10	3/24/2022 5:15:45 PM	66339
Surr: DNOP	0	51.1-141	S	%Rec	10	3/24/2022 5:15:45 PM	66339
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Surr: BFB	113	37.7-212		%Rec	1	3/24/2022 2:30:00 AM	66332
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.025		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Toluene	ND	0.049		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Ethylbenzene	ND	0.049		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Xylenes, Total	ND	0.099		mg/Kg	1	3/24/2022 2:30:00 AM	66332
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/24/2022 2:30:00 AM	66332

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

Qualifiers:

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

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**CLIENT:** GHD Midland

# **Analytical Report**

Lab Order **2203B39** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-84

**Project:** Yates AS Fee Battery Collection Date: 3/17/2022 11:40:00 AM

**Lab ID:** 2203B39-018 **Matrix:** SOIL **Received Date:** 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1400	60	mg/Kg	20	3/28/2022 4:31:57 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	210	10	mg/Kg	1	3/25/2022 3:50:34 PM	66339
Motor Oil Range Organics (MRO)	280	50	mg/Kg	1	3/25/2022 3:50:34 PM	66339
Surr: DNOP	97.2	51.1-141	%Rec	1	3/25/2022 3:50:34 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2022 3:29:00 AM	66332
Surr: BFB	104	37.7-212	%Rec	1	3/24/2022 3:29:00 AM	66332
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	3/24/2022 3:29:00 AM	66332
Toluene	ND	0.050	mg/Kg	1	3/24/2022 3:29:00 AM	66332
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2022 3:29:00 AM	66332
Xylenes, Total	ND	0.10	mg/Kg	1	3/24/2022 3:29:00 AM	66332
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	1	3/24/2022 3:29:00 AM	66332

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

Qualifiers:

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

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Lab Order 2203B39

# Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-85

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:45:00 AM

 Lab ID:
 2203B39-019
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	670	60	mg/Kg	20	3/28/2022 4:44:17 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/24/2022 1:21:17 PM	66339
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/24/2022 1:21:17 PM	66339
Surr: DNOP	76.7	51.1-141	%Rec	1	3/24/2022 1:21:17 PM	66339
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2022 3:48:00 AM	66332
Surr: BFB	104	37.7-212	%Rec	1	3/24/2022 3:48:00 AM	66332
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/24/2022 3:48:00 AM	66332
Toluene	ND	0.049	mg/Kg	1	3/24/2022 3:48:00 AM	66332
Ethylbenzene	ND	0.049	mg/Kg	1	3/24/2022 3:48:00 AM	66332
Xylenes, Total	ND	0.098	mg/Kg	1	3/24/2022 3:48:00 AM	66332
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	3/24/2022 3:48:00 AM	66332

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

Qualifiers:

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

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**CLIENT:** GHD Midland

## **Analytical Report**

Lab Order **2203B39** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-86

**Project:** Yates AS Fee Battery **Collection Date:** 3/17/2022 11:50:00 AM

**Lab ID:** 2203B39-020 **Matrix:** SOIL **Received Date:** 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	750	60	mg/Kg	20	3/28/2022 4:56:37 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	130	9.8	mg/Kg	1	3/24/2022 10:21:00 PM	66359
Motor Oil Range Organics (MRO)	170	49	mg/Kg	1	3/24/2022 10:21:00 PM	66359
Surr: DNOP	93.2	51.1-141	%Rec	1	3/24/2022 10:21:00 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/24/2022 3:51:54 PM	66338
Surr: BFB	108	37.7-212	%Rec	1	3/24/2022 3:51:54 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/24/2022 3:51:54 PM	66338
Toluene	ND	0.048	mg/Kg	1	3/24/2022 3:51:54 PM	66338
Ethylbenzene	ND	0.048	mg/Kg	1	3/24/2022 3:51:54 PM	66338
Xylenes, Total	ND	0.097	mg/Kg	1	3/24/2022 3:51:54 PM	66338
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	3/24/2022 3:51:54 PM	66338

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-87

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 11:55:00 AM

 Lab ID:
 2203B39-021
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 450 61 mg/Kg 20 3/28/2022 5:08:58 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 84 9.7 mg/Kg 3/24/2022 11:33:47 PM 66359 Motor Oil Range Organics (MRO) 160 3/24/2022 11:33:47 PM 66359 48 mg/Kg 1 Surr: DNOP 92.0 3/24/2022 11:33:47 PM 66359 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/24/2022 5:01:52 PM Gasoline Range Organics (GRO) ND 5.0 66338 mg/Kg 1 Surr: BFB 131 37.7-212 %Rec 3/24/2022 5:01:52 PM 66338 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 3/24/2022 5:01:52 PM 66338 mg/Kg 1 Toluene ND 0.050 mg/Kg 3/24/2022 5:01:52 PM 66338 Ethylbenzene ND 0.050 mg/Kg 1 3/24/2022 5:01:52 PM 66338 Xylenes, Total ND 0.099 mg/Kg 3/24/2022 5:01:52 PM 66338 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 66338 3/24/2022 5:01:52 PM

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

Qualifiers:

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

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Lab Order 2203B39

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-88

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 12:00:00 PM

 Lab ID:
 2203B39-022
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1500	60	mg/Kg	20	3/28/2022 5:21:18 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	21	10	mg/Kg	1	3/24/2022 11:58:02 PM	66359
Motor Oil Range Organics (MRO)	78	50	mg/Kg	1	3/24/2022 11:58:02 PM	66359
Surr: DNOP	90.7	51.1-141	%Rec	1	3/24/2022 11:58:02 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/24/2022 6:11:51 PM	66338
Surr: BFB	109	37.7-212	%Rec	1	3/24/2022 6:11:51 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/24/2022 6:11:51 PM	66338
Toluene	ND	0.048	mg/Kg	1	3/24/2022 6:11:51 PM	66338
Ethylbenzene	ND	0.048	mg/Kg	1	3/24/2022 6:11:51 PM	66338
Xylenes, Total	ND	0.097	mg/Kg	1	3/24/2022 6:11:51 PM	66338
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	3/24/2022 6:11:51 PM	66338

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

Qualifiers:

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

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**CLIENT:** GHD Midland

# **Analytical Report**

Lab Order **2203B39**Date Reported: **4/5/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-89

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 12:05:00 PM

 Lab ID:
 2203B39-023
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	2300	60	mg/Kg	20	3/28/2022 5:33:39 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	89	10	mg/Kg	1	3/25/2022 12:22:08 AM	66359
Motor Oil Range Organics (MRO)	150	50	mg/Kg	1	3/25/2022 12:22:08 AM	66359
Surr: DNOP	91.5	51.1-141	%Rec	1	3/25/2022 12:22:08 AM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2022 6:35:13 PM	66338
Surr: BFB	104	37.7-212	%Rec	1	3/24/2022 6:35:13 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/24/2022 6:35:13 PM	66338
Toluene	ND	0.049	mg/Kg	1	3/24/2022 6:35:13 PM	66338
Ethylbenzene	ND	0.049	mg/Kg	1	3/24/2022 6:35:13 PM	66338
Xylenes, Total	ND	0.098	mg/Kg	1	3/24/2022 6:35:13 PM	66338
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	3/24/2022 6:35:13 PM	66338

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

Qualifiers:

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

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**CLIENT:** GHD Midland

## **Analytical Report**

Lab Order **2203B39** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH-90

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 12:10:00 PM

 Lab ID:
 2203B39-024
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 1900 60 mg/Kg 20 3/28/2022 5:46:00 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.9 mg/Kg 3/24/2022 1:38:08 PM 66359 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/24/2022 1:38:08 PM 66359 Surr: DNOP 89.8 66359 51.1-141 %Rec 3/24/2022 1:38:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/24/2022 6:58:36 PM Gasoline Range Organics (GRO) ND 5.0 66338 mg/Kg 1 Surr: BFB 107 37.7-212 %Rec 3/24/2022 6:58:36 PM 66338 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.025 mg/Kg 3/24/2022 6:58:36 PM 66338 Benzene 1 Toluene ND 0.050 mg/Kg 3/24/2022 6:58:36 PM 66338 Ethylbenzene ND 0.050 mg/Kg 1 3/24/2022 6:58:36 PM 66338 Xylenes, Total ND 0.099 mg/Kg 3/24/2022 6:58:36 PM 66338 Surr: 4-Bromofluorobenzene 70-130 97.0 %Rec 3/24/2022 6:58:36 PM 66338

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

Qualifiers:

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

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Lab Order **2203B39** 

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: BH-91

 Project:
 Yates AS Fee Battery
 Collection Date: 3/17/2022 12:15:00 PM

 Lab ID:
 2203B39-025
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	3500	150	mg/Kg	50	3/29/2022 2:32:24 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	120	10	mg/Kg	1	3/25/2022 12:27:10 PM	66359
Motor Oil Range Organics (MRO)	170	50	mg/Kg	1	3/25/2022 12:27:10 PM	66359
Surr: DNOP	76.3	51.1-141	%Rec	1	3/25/2022 12:27:10 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/24/2022 7:22:02 PM	66338
Surr: BFB	105	37.7-212	%Rec	1	3/24/2022 7:22:02 PM	66338
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/24/2022 7:22:02 PM	66338
Toluene	ND	0.048	mg/Kg	1	3/24/2022 7:22:02 PM	66338
Ethylbenzene	ND	0.048	mg/Kg	1	3/24/2022 7:22:02 PM	66338
Xylenes, Total	ND	0.097	mg/Kg	1	3/24/2022 7:22:02 PM	66338
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	3/24/2022 7:22:02 PM	66338

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

Qualifiers:

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

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Lab Order 2203B39

Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-11

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:00:00 PM

 Lab ID:
 2203B39-026
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 270 60 mg/Kg 20 3/28/2022 6:35:22 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 71 9.9 mg/Kg 3/24/2022 2:36:26 PM 66359 Motor Oil Range Organics (MRO) 200 50 mg/Kg 1 3/24/2022 2:36:26 PM 66359 Surr: DNOP 89.3 66359 51.1-141 %Rec 3/24/2022 2:36:26 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/24/2022 7:45:36 PM Gasoline Range Organics (GRO) ND 66338 49 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 3/24/2022 7:45:36 PM 66338 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 3/24/2022 7:45:36 PM 66338 1 Toluene ND 0.049 mg/Kg 3/24/2022 7:45:36 PM 66338 Ethylbenzene ND 0.049 mg/Kg 1 3/24/2022 7:45:36 PM 66338 Xylenes, Total ND 0.098 mg/Kg 3/24/2022 7:45:36 PM 66338 Surr: 4-Bromofluorobenzene 94.2 70-130 %Rec 3/24/2022 7:45:36 PM 66338

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-12

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:05:00 PM

 Lab ID:
 2203B39-027
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	200	60	mg/Kg	20	3/28/2022 6:47:42 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/24/2022 3:25:42 PM	66359
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/24/2022 3:25:42 PM	66359
Surr: DNOP	83.5	51.1-141	%Rec	1	3/24/2022 3:25:42 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2022 8:09:10 PM	66338
Surr: BFB	108	37.7-212	%Rec	1	3/24/2022 8:09:10 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/24/2022 8:09:10 PM	66338
Toluene	ND	0.050	mg/Kg	1	3/24/2022 8:09:10 PM	66338
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2022 8:09:10 PM	66338
Xylenes, Total	ND	0.099	mg/Kg	1	3/24/2022 8:09:10 PM	66338
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	3/24/2022 8:09:10 PM	66338

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

Qualifiers:

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

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**CLIENT:** GHD Midland

# **Analytical Report**

Lab Order **2203B39** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-13

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:10:00 PM

 Lab ID:
 2203B39-028
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 660 60 mg/Kg 20 3/28/2022 7:00:03 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 16 9.6 mg/Kg 3/24/2022 4:39:15 PM Motor Oil Range Organics (MRO) 50 48 mg/Kg 1 3/24/2022 4:39:15 PM 66359 Surr: DNOP 79.3 3/24/2022 4:39:15 PM 66359 51.1-141 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/24/2022 9:43:23 PM Gasoline Range Organics (GRO) ND 66338 49 mg/Kg 1 Surr: BFB 106 37.7-212 %Rec 3/24/2022 9:43:23 PM 66338 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 3/24/2022 9:43:23 PM 66338 1 Toluene ND 0.049 mg/Kg 3/24/2022 9:43:23 PM 66338 Ethylbenzene ND 0.049 mg/Kg 1 3/24/2022 9:43:23 PM 66338 Xylenes, Total ND 0.097 mg/Kg 3/24/2022 9:43:23 PM 66338 66338 Surr: 4-Bromofluorobenzene 95.2 70-130 %Rec 3/24/2022 9:43:23 PM

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

Qualifiers:

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

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Lab Order 2203B39

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2022

CLIENT: GHD Midland Client Sample ID: SW-14

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:15:00 PM

 Lab ID:
 2203B39-029
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 170 60 mg/Kg 20 3/28/2022 7:12:24 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 630 92 mg/Kg 3/28/2022 1:03:13 PM Motor Oil Range Organics (MRO) 950 460 66359 mg/Kg 10 3/28/2022 1:03:13 PM Surr: DNOP 0 3/28/2022 1:03:13 PM 66359 51.1-141 S %Rec Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 3/24/2022 10:06:55 PM 66338 Gasoline Range Organics (GRO) ND 25 5 mg/Kg Surr: BFB 106 37.7-212 %Rec 3/24/2022 10:06:55 PM 66338 Analyst: NSB **EPA METHOD 8021B: VOLATILES** Benzene ND mg/Kg 3/24/2022 10:06:55 PM 66338 0.12 5 Toluene ND 0.25 mg/Kg 3/24/2022 10:06:55 PM 66338 Ethylbenzene ND 0.25 mg/Kg 5 3/24/2022 10:06:55 PM 66338 Xylenes, Total ND 0.49 mg/Kg 5 3/24/2022 10:06:55 PM 66338 Surr: 4-Bromofluorobenzene 70-130 3/24/2022 10:06:55 PM 66338 94.3 %Rec

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

Qualifiers:

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

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Lab Order **2203B39** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-15

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:20:00 PM

 Lab ID:
 2203B39-030
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	350	60	mg/Kg	20	3/28/2022 7:49:28 PM	66445
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	86	9.5	mg/Kg	1	3/24/2022 5:28:15 PM	66359
Motor Oil Range Organics (MRO)	150	47	mg/Kg	1	3/24/2022 5:28:15 PM	66359
Surr: DNOP	90.1	51.1-141	%Rec	1	3/24/2022 5:28:15 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2022 10:30:29 PM	66338
Surr: BFB	108	37.7-212	%Rec	1	3/24/2022 10:30:29 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/24/2022 10:30:29 PM	66338
Toluene	ND	0.049	mg/Kg	1	3/24/2022 10:30:29 PM	66338
Ethylbenzene	ND	0.049	mg/Kg	1	3/24/2022 10:30:29 PM	66338
Xylenes, Total	ND	0.098	mg/Kg	1	3/24/2022 10:30:29 PM	66338
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/24/2022 10:30:29 PM	66338

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-16

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:25:00 PM

 Lab ID:
 2203B39-031
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride 200 60 mg/Kg 20 3/28/2022 8:01:48 PM 66445 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.5 mg/Kg 3/24/2022 5:52:40 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/24/2022 5:52:40 PM 66359 Surr: DNOP 89.0 66359 51.1-141 %Rec 3/24/2022 5:52:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/24/2022 10:54:03 PM 66338 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 3/24/2022 10:54:03 PM 66338 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 0.024 mg/Kg 3/24/2022 10:54:03 PM 66338 Benzene 1 Toluene ND 0.048 mg/Kg 3/24/2022 10:54:03 PM 66338 Ethylbenzene ND 0.048 mg/Kg 1 3/24/2022 10:54:03 PM 66338 Xylenes, Total ND 0.097 mg/Kg 3/24/2022 10:54:03 PM 66338 Surr: 4-Bromofluorobenzene 70-130 3/24/2022 10:54:03 PM 66338 94.0 %Rec

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

Qualifiers:

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

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Lab Order **2203B39**Date Reported: **4/5/2022** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-17

 Project:
 Yates AS Fee Battery
 Collection Date: 3/18/2022 12:30:00 PM

 Lab ID:
 2203B39-032
 Matrix: SOIL
 Received Date: 3/22/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	85	60	mg/Kg	20	3/28/2022 9:03:32 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	110	9.8	mg/Kg	1	3/24/2022 6:17:21 PM	66359
Motor Oil Range Organics (MRO)	190	49	mg/Kg	1	3/24/2022 6:17:21 PM	66359
Surr: DNOP	81.6	51.1-141	%Rec	1	3/24/2022 6:17:21 PM	66359
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2022 11:17:28 PM	66338
Surr: BFB	107	37.7-212	%Rec	1	3/24/2022 11:17:28 PM	66338
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/24/2022 11:17:28 PM	66338
Toluene	ND	0.050	mg/Kg	1	3/24/2022 11:17:28 PM	66338
Ethylbenzene	ND	0.050	mg/Kg	1	3/24/2022 11:17:28 PM	66338
Xylenes, Total	ND	0.099	mg/Kg	1	3/24/2022 11:17:28 PM	66338
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	3/24/2022 11:17:28 PM	66338

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39 05-Apr-22** 

Client: GHD Midland
Project: Yates AS Fee Battery

Sample ID: MB-66436 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66436 RunNo: 86789

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065423 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-66436 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66436 RunNo: 86789

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065424 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.7 90 110

Sample ID: MB-66445 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66445 RunNo: 86811

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065610 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66445 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66445 RunNo: 86811

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065611 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Sample ID: MB-66450 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **66450** RunNo: **86811** 

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065644 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66450 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66450 RunNo: 86811

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065645 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.7 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 2203B39 05-Apr-22

**Client:** GHD Midland **Project:** Yates AS Fee Battery

Sample ID: LCS-66359	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: <b>66</b>	359	F	RunNo: 8	6720				
Prep Date: 3/23/2022	Analysis D	ate: 3/	24/2022	S	SeqNo: 3	061758	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	4.1		5.000		81.6	51.1	141			
Sample ID: <b>MB-66359</b>	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: EI	PA Method	8015M/D: Die	esel Range	e Organics	

Client ID: PBS	Batch	ID: <b>66</b>	359	F	RunNo: 8	6720				
Prep Date: 3/23/2022	Analysis D	ate: 3/	24/2022	8	SeqNo: 3	061759	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	8.7		10.00		87.3	51.1	141			

Sample ID: LCS-66339	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	A Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	ID: <b>66</b>	339	R	RunNo: 80	6708						
Prep Date: 3/23/2022	Analysis D	ate: <b>3/</b> 2	24/2022	SeqNo: 3061782 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	43	10	50.00	0	85.3	68.9	135					
Surr: DNOP	3.7		5.000		74.5	51.1	141					

Sample ID: MB-66339	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: <b>66</b>	339	F	RunNo: 8	6708				
Prep Date: 3/23/2022	Analysis D	)ate: <b>3/</b>	24/2022	8	SeqNo: 3	061783	Units: mg/K	ίg		
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	9.9		10.00		98.7	51.1	141			
Sample ID: 2203B39-020AMS	SampT	vne MS	•	Tes	tCode: <b>F</b> l	PA Method	8015M/D: Die	esel Rang	e Organics	

Sample ID: 2203B39-020AMS	Samprype	: IVIS		res	Code: EI	A Wethod	8015W/D: DIE	sei Range	e Organics	
Client ID: BH-86	Batch ID	: 663	59	F	RunNo: 80	6720				
Prep Date: 3/23/2022	Analysis Date	: 3/2	4/2022	S	SeqNo: 30	062736	Units: mg/K	g		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	280	9.9	49.70	131.1	304	36.1	154			S
Surr: DNOP	4.4		4.970		89.1	51.1	141			

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39 05-Apr-22** 

**Client:** GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: 2203B39-020AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BH-86** Batch ID: **66359** RunNo: **86720** 

Prep Date: 3/23/2022 Analysis Date: 3/24/2022 SeqNo: 3062737 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) 10 131.1 36.1 48.5 33.9 R 170 49.85 82.1 154 Surr: DNOP 4.1 4.985 83.2 51.1 141 0 0

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39 05-Apr-22** 

Client: GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: mb-66332 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66332 RunNo: 86691

Prep Date: 3/22/2022 Analysis Date: 3/23/2022 SeqNo: 3061125 Units: mg/Kg

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 111 37.7 212

Sample ID: Ics-66332 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66332 RunNo: 86691

Prep Date: 3/22/2022 Analysis Date: 3/23/2022 SeqNo: 3061126 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 103 72.3 137 Surr: BFB S 2300 1000 227 37 7 212

Sample ID: mb-66338 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66338 RunNo: 86732

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062171 Units: mg/Kg

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 37.7 212

Sample ID: Ics-66338 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66338 RunNo: 86732

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062172 Units: mq/Kq

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 98.1 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: 2203b39-020ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-86** Batch ID: **66338** RunNo: **86732** 

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062174 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 4.9 0 70 24.65 89.9 130 S Surr: BFB 2100 986.2 217 37.7 212

Sample ID: 2203b39-020amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-86** Batch ID: **66338** RunNo: **86732** 

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062175 Units: mg/Kg

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

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39** 

05-Apr-22

Client: GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: 2203b39-020amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-86** Batch ID: **66338** RunNo: **86732** 

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062175 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 103 20 Gasoline Range Organics (GRO) 25 4.9 24.56 70 130 13.6 Surr: BFB 2200 982.3 223 37.7 212 0 S

Sample ID: mb-66382 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66382 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/26/2022 SeqNo: 3063885 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1100 1000 Surr: BFB 108 37.7 212

Sample ID: Ics-66382 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66382 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063886 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 2200 1000 219 37.7 212 S Surr: BFB

### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2203B39

05-Apr-22

**Client:** GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: mb-66332 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66332 RunNo: 86691

Prep Date: 3/22/2022 Analysis Date: 3/23/2022 SeqNo: 3061171 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.92 1.000 91.8 70 130

Sample ID: Ics-66332 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 66332 RunNo: 86691

Analysis Date: 3/33/2033 Seallo: 3061173 Unito: mar/l/a

Prep Date: 3/22/2022	Analysis L	Jate: <b>3/</b>	23/2022	3	eqivo: 3	061173	Units: mg/K	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.91	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	70	130			

Sample ID: 2203b39-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-67 Batch ID: 66332 RunNo: 86691

Prep Date: 3/22/2022	Analysis D	Date: <b>3/</b>	23/2022	5	SeqNo: 30	061176	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9560	0	95.9	68.8	120			
Toluene	0.95	0.048	0.9560	0	99.8	73.6	124			
Ethylbenzene	0.97	0.048	0.9560	0	101	72.7	129			
Xylenes, Total	2.9	0.096	2.868	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9560		91.8	70	130			

Sample ID: 2203b39-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Batch ID: 66332 RunNo: 86691 Client ID: BH-67

Prep Date: 3/22/2022	Analysis [	Date: <b>3/</b>	23/2022	5	SeqNo: 30	061177	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9756	0	102	68.8	120	8.17	20	
Toluene	1.0	0.049	0.9756	0	107	73.6	124	8.63	20	
Ethylbenzene	1.1	0.049	0.9756	0	108	72.7	129	9.01	20	
Xylenes, Total	3.2	0.098	2.927	0	108	75.7	126	8.75	20	
Surr: 4-Bromofluorobenzene	0.89		0.9756		90.9	70	130	0	0	

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39** 

05-Apr-22

Client: GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: mb-66338	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
---------------------	----------------	---------------------------------------

Client ID: PBS Batch ID: 66338 RunNo: 86732

Prep Date: 3/22/2022 Analysis Date: 3/24/2022 SeqNo: 3062210 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.96 1.000 96.4 70 130

Sample ID: LCS-66338	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: <b>66</b>	338	F	RunNo: 8	6732				
Prep Date: 3/22/2022	Analysis D	ate: 3/	24/2022	S	SeqNo: 3	062211	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.0	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			

0.93 0.050 0 93.0 80 120 Ethylbenzene 1.000 Xylenes, Total 2.8 0.10 3.000 0 92.9 80 120 102 Surr: 4-Bromofluorobenzene 1.0 1.000 70 130

Sample ID: 2203b39-021ar	<b>ns</b> Samp	Type: MS	5	les	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH-87	Bato	h ID: 66	338	F	RunNo: 8	6732				
Prep Date: 3/22/2022	Analysis	Date: <b>3/</b>	24/2022	S	SeqNo: 3	062214	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9756	0	80.3	68.8	120			
Toluene	0.86	0.049	0.9756	0	87.9	73.6	124			
Ethylbenzene	0.87	0.049	0.9756	0.01337	88.0	72.7	129			

Xylenes, Total Surr: 4-Bromofluorobenzene	2.6 0.098 0.99	2.927 0.03396 0.9756	89.2 75.7 101 70	126 130		
Sample ID: 2203b39-021amsd	SampType: MSD	Te	estCode: EPA Method	I 8021B: Volatiles		
Client ID: BH-87	Batch ID: <b>66338</b>		RunNo: <b>86732</b>			
Prep Date: 3/22/2022	Analysis Date: 3/24/20	022	SeqNo: <b>3062215</b>	Units: mg/Kg		
Analyta	Decult DOI CDI	K value CDK Daf Va	I IV DEC Lovelimit	High imit 0/ DDD	DDDI imit	Ougl

Prep Date: 3/22/2022	Analysis [	Date: <b>3/</b>	24/2022	\$	SeqNo: 30	062215	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9980	0	81.4	68.8	120	3.68	20	
Toluene	0.88	0.050	0.9980	0	88.2	73.6	124	2.64	20	
Ethylbenzene	0.90	0.050	0.9980	0.01337	88.5	72.7	129	2.75	20	
Xylenes, Total	2.7	0.10	2.994	0.03396	88.7	75.7	126	1.70	20	
Surr: 4-Bromofluorobenzene	1.0		0.9980		104	70	130	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203B39** *05-Apr-22* 

Client: GHD Midland

**Project:** Yates AS Fee Battery

Sample ID: mb-66382 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66382 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/26/2022 SeqNo: 3063943 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.98 1.000 97.9 70 130

Sample ID: LCS-66382 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 66382 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063944 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 102 70 136

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

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

Client Name:	GHD Midland	Work Order Nu	mber: 2203	3B39		RcptNo: 1
Received By:	Cheyenne Cason	3/22/2022 7:15:00	) AM		( head	
Completed By:	Cheyenne Cason	3/22/2022 8:13:20			Chal	
Reviewed By:		2/22	AIVI		Chal	
Chain of Cust	<u>ody</u>					
1. Is Chain of Cus	stody complete?		Yes	~	No [	Not Present
2. How was the s	ample delivered?				140.	Not Present
	3 410 4 4 2 4		Couri	<u>ier</u>		
Log In						
3. Was an attemp	t made to cool the sample	es?	Yes	~	No 🗌	NA 🗆
4						
4. Were all sample	es received at a temperati	ure of >0° C to 6.0°C	Yes	<b>~</b>	No 🗌	NA 🗆
5. Sample(s) in pr	Oper container(s)2					
	oper container(s)!		Yes	<b>V</b>	No 🗌	
6. Sufficient sampl	e volume for indicated tes	it(s)?	Yes		No 🗌	
	cept VOA and ONG) prop			<b>V</b>	No 🗌	
	e added to bottles?	- y proceived:	- 6			
			Yes		No 🗸	NA L
<ol><li>Received at leas</li></ol>	t 1 vial with headspace <	1/4" for AQ VOA?	Yes	Ť	No 🗌	NA 🗹
	le containers received bro		Yes		No 🗸	IVA 🖭
					.,.	# of preserved
1. Does paperwork	match bottle labels?		Yes V	/	No 🗌	bottles checked for pH:
	cies on chain of custody)					(<2 or >12 unless noted)
	rectly identified on Chain o	of Custody?	Yes V		No 🗌	Adjusted?
	nalyses were requested?		Yes 🔽		No 🗌	21.15
(If no, notify custo	times able to be met? omer for authorization.)		Yes 🗸		No 🗌	effecked by: 7/2 3 22 2°
					1	
	g (if applicable)					
<ol><li>Was client notifie</li></ol>	ed of all discrepancies with	this order?	Yes [		No 🗌	NA 🗹
Person No	tified:	Date:				
By Whom:		Via:	-0.75.0	□ Di	-	E. Carlotte
Regarding:		VIA.	eMail	Phone	Fax	☐ In Person
Client Instr	uctions:					
6. Additional remar	ks:					
7. Cooler Informat	tion					
		Seal Intact Carlot	0			
1 5.		Seal Intact Seal No of Present	Seal Date	Sign	ned By	
2 3.		ot Present				

Page 1 of 1

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Phone #:	#:	(505)37	(505)377-4218	11223	101			lei. 503	505-345-3975	9/5	Analysis	505-34	505-345-4107		//20
email	email or Fax#:		Becky. Haskell@ghd.com	Project Manager:	ader		-		-	-		sen nex	ا ا	-	
QA/QC	QA/QC Package:			Becky Haskell	ell				S	03	00		(Mar		4.34
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Released to Imaging: 9/2/2022 9:24:33 AM

Client: GHD  Mailing Address: 324 W. Main St. Phone #: CA/QC Package:  Standard Accreditation: Date Time P	GHD GHD GHD Main St.  "#: ( Fax#:   Gard dard dard (Type)   Time   Main St.	Suite 108, Arte (505)377-4218 Becky. Haskell@  Az Complian  Other  Matrix San	88 4 4 8 D D D D D D D D D D D D D D D D	Turn-Around Time:  Standard CRus Project Name:  \[ \lambda \tau_1 \rangle \ran	ch Co	e:  D. Rush S- N.  L. Comino  Comino  es	BTEX / MTBE / TMB's (8021)	4 - <u>e</u>	EDB (Method 504.1)	HALL ENVIRON AND TOTAL SOLUTION AND THE STATE AND AND TOTAL SOLUTION AND THE SOLUTION AND T	CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	AOV) 0828 (AOV-inna) 0728	CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA)  Analysis Request Total Coliform (Present/Absent)  Chloride Method 300	HALL ENVIRONMENTAL ANALYSIS LABORATORY  www.hallenvironmental.com kins NE - Albuquerque, NM 87109  RCRA 8 Metals  CI, F, Br, NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> RSZ0 (VOA)  RSZ0 (VOA)  Analysis Request  Total Coliform (Present/Absent)  Chloride Method 300	
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ind Time:  HALL ENVIRONMENTAL  ANALYSIS LABORATORY  www.hallenvironmental.com  4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975 Fax 505-345-4107	Sach Comino   X Yes	025
Turn-Around Time:  Standard Project Name:  Asks As Fu	Hask Harson Hask Harson Her:	Received by: Via:
	AAQC Package:  □ Standard □ Standard □ NELAC □ Other □ EDD (Type) □ Date Time Matrix Sample Name	35/822 1206 5 5W - 11 12.05 5W - 12 12.15 5W - 12 12.15 5W - 14 12.25 5W - 14 12.25 5W - 15 3W - 17 5W - 17



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

April 05, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates Fee AS Battery OrderNo.: 2203C72

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 29 sample(s) on 3/24/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2203C72

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-92

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:00:00 AM

 Lab ID:
 2203C72-001
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	2100	61	mg/Kg	20	3/28/2022 10:05:15 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	140	10	mg/Kg	1	3/25/2022 3:37:21 PM	66387
Motor Oil Range Organics (MRO)	180	50	mg/Kg	1	3/25/2022 3:37:21 PM	66387
Surr: DNOP	94.9	51.1-141	%Rec	1	3/25/2022 3:37:21 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2022 9:38:28 PM	66382
Surr: BFB	106	37.7-212	%Rec	1	3/25/2022 9:38:28 PM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 9:38:28 PM	66382
Toluene	ND	0.048	mg/Kg	1	3/25/2022 9:38:28 PM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/25/2022 9:38:28 PM	66382
Xylenes, Total	ND	0.095	mg/Kg	1	3/25/2022 9:38:28 PM	66382
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	3/25/2022 9:38:28 PM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-93

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:05:00 AM

 Lab ID:
 2203C72-002
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2600	150	mg/Kg	50	3/29/2022 2:57:07 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	220	9.9	mg/Kg	1	3/25/2022 4:51:10 PM	66387
Motor Oil Range Organics (MRO)	230	49	mg/Kg	1	3/25/2022 4:51:10 PM	66387
Surr: DNOP	88.6	51.1-141	%Rec	1	3/25/2022 4:51:10 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/25/2022 10:48:58 PM	66382
Surr: BFB	101	37.7-212	%Rec	1	3/25/2022 10:48:58 PM	66382
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 10:48:58 PM	66382
Toluene	ND	0.047	mg/Kg	1	3/25/2022 10:48:58 PM	66382
Ethylbenzene	ND	0.047	mg/Kg	1	3/25/2022 10:48:58 PM	66382
Xylenes, Total	ND	0.094	mg/Kg	1	3/25/2022 10:48:58 PM	66382
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	3/25/2022 10:48:58 PM	66382

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

Qualifiers:

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

Page 2 of 36

Lab Order **2203C72** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-94

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:15:00 AM

 Lab ID:
 2203C72-003
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	1300	60	mg/Kg	20	3/28/2022 10:54:40 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ED
Diesel Range Organics (DRO)	110	9.3	mg/Kg	1	3/25/2022 5:15:39 PM	66387
Motor Oil Range Organics (MRO)	160	47	mg/Kg	1	3/25/2022 5:15:39 PM	66387
Surr: DNOP	81.0	51.1-141	%Rec	1	3/25/2022 5:15:39 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/25/2022 11:59:34 PM	66382
Surr: BFB	105	37.7-212	%Rec	1	3/25/2022 11:59:34 PM	66382
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 11:59:34 PM	66382
Toluene	ND	0.047	mg/Kg	1	3/25/2022 11:59:34 PM	66382
Ethylbenzene	ND	0.047	mg/Kg	1	3/25/2022 11:59:34 PM	66382
Xylenes, Total	ND	0.094	mg/Kg	1	3/25/2022 11:59:34 PM	66382
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	3/25/2022 11:59:34 PM	66382

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

Qualifiers:

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

Page 3 of 36

Lab Order 2203C72

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-95

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:20:00 AM

 Lab ID:
 2203C72-004
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	560	60		mg/Kg	20	3/28/2022 11:31:42 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: ED
Diesel Range Organics (DRO)	3700	99		mg/Kg	10	3/28/2022 2:41:08 PM	66387
Motor Oil Range Organics (MRO)	2400	500		mg/Kg	10	3/28/2022 2:41:08 PM	66387
Surr: DNOP	0	51.1-141	S	%Rec	10	3/28/2022 2:41:08 PM	66387
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Surr: BFB	109	37.7-212		%Rec	5	3/26/2022 12:23:02 AM	66382
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Toluene	ND	0.24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 12:23:02 AM	66382
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	3/26/2022 12:23:02 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-96

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:25:00 AM

 Lab ID:
 2203C72-005
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	<b>Qual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	430	61	mg/Kg	20	3/28/2022 11:44:02 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/25/2022 11:38:40 AM	66387
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/25/2022 11:38:40 AM	66387
Surr: DNOP	77.8	51.1-141	%Rec	1	3/25/2022 11:38:40 AM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2022 12:46:34 AM	66382
Surr: BFB	105	37.7-212	%Rec	1	3/26/2022 12:46:34 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 12:46:34 AM	66382
Toluene	ND	0.049	mg/Kg	1	3/26/2022 12:46:34 AM	66382
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2022 12:46:34 AM	66382
Xylenes, Total	ND	0.098	mg/Kg	1	3/26/2022 12:46:34 AM	66382
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	3/26/2022 12:46:34 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-97

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:30:00 AM

 Lab ID:
 2203C72-006
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	480	60	mg/Kg	20	3/28/2022 11:56:24 PM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/25/2022 12:02:49 PM	66387
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/25/2022 12:02:49 PM	66387
Surr: DNOP	83.6	51.1-141	%Rec	1	3/25/2022 12:02:49 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 1:10:04 AM	66382
Surr: BFB	111	37.7-212	%Rec	1	3/26/2022 1:10:04 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 1:10:04 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 1:10:04 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 1:10:04 AM	66382
Xylenes, Total	ND	0.096	mg/Kg	1	3/26/2022 1:10:04 AM	66382
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	3/26/2022 1:10:04 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-98

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:35:00 AM

 Lab ID:
 2203C72-007
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	320	60	mg/Kg	20	3/29/2022 12:08:45 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/25/2022 6:29:19 PM	66387
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/25/2022 6:29:19 PM	66387
Surr: DNOP	98.0	51.1-141	%Rec	1	3/25/2022 6:29:19 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/26/2022 1:33:34 AM	66382
Surr: BFB	106	37.7-212	%Rec	1	3/26/2022 1:33:34 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/26/2022 1:33:34 AM	66382
Toluene	ND	0.050	mg/Kg	1	3/26/2022 1:33:34 AM	66382
Ethylbenzene	ND	0.050	mg/Kg	1	3/26/2022 1:33:34 AM	66382
Xylenes, Total	ND	0.10	mg/Kg	1	3/26/2022 1:33:34 AM	66382
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	3/26/2022 1:33:34 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-99

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:40:00 AM

 Lab ID:
 2203C72-008
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1900	60	mg/Kg	20	3/29/2022 12:21:05 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/25/2022 6:53:48 PM	66387
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/25/2022 6:53:48 PM	66387
Surr: DNOP	87.8	51.1-141	%Rec	1	3/25/2022 6:53:48 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 1:56:55 AM	66382
Surr: BFB	119	37.7-212	%Rec	1	3/26/2022 1:56:55 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 1:56:55 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 1:56:55 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 1:56:55 AM	66382
Xylenes, Total	ND	0.095	mg/Kg	1	3/26/2022 1:56:55 AM	66382
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	3/26/2022 1:56:55 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-100

 Project:
 Yates Fee AS Battery
 Collection Date: 3/21/2022 10:45:00 AM

 Lab ID:
 2203C72-009
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1500	60	mg/Kg	20	3/29/2022 12:33:26 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	13	9.1	mg/Kg	1	3/25/2022 7:18:21 PM	66387
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/25/2022 7:18:21 PM	66387
Surr: DNOP	92.6	51.1-141	%Rec	1	3/25/2022 7:18:21 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 3:30:57 AM	66382
Surr: BFB	106	37.7-212	%Rec	1	3/26/2022 3:30:57 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 3:30:57 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 3:30:57 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 3:30:57 AM	66382
Xylenes, Total	ND	0.096	mg/Kg	1	3/26/2022 3:30:57 AM	66382
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	3/26/2022 3:30:57 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-101

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:00:00 AM

 Lab ID:
 2203C72-010
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1200	59	mg/Kg	20	3/29/2022 1:10:28 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	9.4	9.3	mg/Kg	1	3/25/2022 7:42:48 PM	66387
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/25/2022 7:42:48 PM	66387
Surr: DNOP	87.0	51.1-141	%Rec	1	3/25/2022 7:42:48 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2022 3:54:24 AM	66382
Surr: BFB	108	37.7-212	%Rec	1	3/26/2022 3:54:24 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/26/2022 3:54:24 AM	66382
Toluene	ND	0.049	mg/Kg	1	3/26/2022 3:54:24 AM	66382
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2022 3:54:24 AM	66382
Xylenes, Total	ND	0.098	mg/Kg	1	3/26/2022 3:54:24 AM	66382
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	3/26/2022 3:54:24 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-102

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:05:00 AM

 Lab ID:
 2203C72-011
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1700	60	mg/Kg	20	3/29/2022 1:22:48 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	12	9.9	mg/Kg	1	3/25/2022 8:07:13 PM	66387
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/25/2022 8:07:13 PM	66387
Surr: DNOP	91.0	51.1-141	%Rec	1	3/25/2022 8:07:13 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 4:17:54 AM	66382
Surr: BFB	108	37.7-212	%Rec	1	3/26/2022 4:17:54 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 4:17:54 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 4:17:54 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 4:17:54 AM	66382
Xylenes, Total	ND	0.096	mg/Kg	1	3/26/2022 4:17:54 AM	66382
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/26/2022 4:17:54 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-103

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:10:00 AM

 Lab ID:
 2203C72-012
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1200	60	mg/Kg	20	3/29/2022 1:59:50 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	25	10	mg/Kg	1	3/25/2022 8:31:31 PM	66387
Motor Oil Range Organics (MRO)	51	50	mg/Kg	1	3/25/2022 8:31:31 PM	66387
Surr: DNOP	88.9	51.1-141	%Rec	1	3/25/2022 8:31:31 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 4:41:24 AM	66382
Surr: BFB	104	37.7-212	%Rec	1	3/26/2022 4:41:24 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 4:41:24 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 4:41:24 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 4:41:24 AM	66382
Xylenes, Total	ND	0.096	mg/Kg	1	3/26/2022 4:41:24 AM	66382
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	3/26/2022 4:41:24 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-104

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:15:00 AM

 Lab ID:
 2203C72-013
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	2100	60	mg/Kg	20	3/29/2022 2:12:12 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	68	9.8	mg/Kg	1	3/25/2022 8:56:01 PM	66387
Motor Oil Range Organics (MRO)	100	49	mg/Kg	1	3/25/2022 8:56:01 PM	66387
Surr: DNOP	95.5	51.1-141	%Rec	1	3/25/2022 8:56:01 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 5:04:54 AM	66382
Surr: BFB	107	37.7-212	%Rec	1	3/26/2022 5:04:54 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 5:04:54 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 5:04:54 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 5:04:54 AM	66382
Xylenes, Total	ND	0.096	mg/Kg	1	3/26/2022 5:04:54 AM	66382
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/26/2022 5:04:54 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-105

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:20:00 AM

 Lab ID:
 2203C72-014
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	1700	60	mg/Kg	20	3/29/2022 2:24:33 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/25/2022 9:44:37 PM	66387
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/25/2022 9:44:37 PM	66387
Surr: DNOP	91.6	51.1-141	%Rec	1	3/25/2022 9:44:37 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/26/2022 5:28:23 AM	66382
Surr: BFB	111	37.7-212	%Rec	1	3/26/2022 5:28:23 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/26/2022 5:28:23 AM	66382
Toluene	ND	0.050	mg/Kg	1	3/26/2022 5:28:23 AM	66382
Ethylbenzene	ND	0.050	mg/Kg	1	3/26/2022 5:28:23 AM	66382
Xylenes, Total	ND	0.099	mg/Kg	1	3/26/2022 5:28:23 AM	66382
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	3/26/2022 5:28:23 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-106

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:25:00 AM

 Lab ID:
 2203C72-015
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	220	60	mg/Kg	20	3/29/2022 2:36:54 AM	66450
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	99	10	mg/Kg	1	3/25/2022 10:08:57 PM	66387
Motor Oil Range Organics (MRO)	150	50	mg/Kg	1	3/25/2022 10:08:57 PM	66387
Surr: DNOP	96.1	51.1-141	%Rec	1	3/25/2022 10:08:57 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2022 5:51:47 AM	66382
Surr: BFB	107	37.7-212	%Rec	1	3/26/2022 5:51:47 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/26/2022 5:51:47 AM	66382
Toluene	ND	0.049	mg/Kg	1	3/26/2022 5:51:47 AM	66382
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2022 5:51:47 AM	66382
Xylenes, Total	ND	0.098	mg/Kg	1	3/26/2022 5:51:47 AM	66382
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/26/2022 5:51:47 AM	66382

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-107

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:30:00 AM

 Lab ID:
 2203C72-016
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	5300	300	mg/Kg	100	3/31/2022 11:04:39 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	68	9.8	mg/Kg	1	3/25/2022 10:57:36 PM	66387
Motor Oil Range Organics (MRO)	67	49	mg/Kg	1	3/25/2022 10:57:36 PM	66387
Surr: DNOP	96.1	51.1-141	%Rec	1	3/25/2022 10:57:36 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/26/2022 6:15:11 AM	66382
Surr: BFB	107	37.7-212	%Rec	1	3/26/2022 6:15:11 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 6:15:11 AM	66382
Toluene	ND	0.048	mg/Kg	1	3/26/2022 6:15:11 AM	66382
Ethylbenzene	ND	0.048	mg/Kg	1	3/26/2022 6:15:11 AM	66382
Xylenes, Total	ND	0.095	mg/Kg	1	3/26/2022 6:15:11 AM	66382
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	3/26/2022 6:15:11 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-108

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:35:00 AM

 Lab ID:
 2203C72-017
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	140	60	mg/Kg	20	3/30/2022 11:08:06 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	12	9.3	mg/Kg	1	3/25/2022 11:21:49 PM	66387
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/25/2022 11:21:49 PM	66387
Surr: DNOP	89.8	51.1-141	%Rec	1	3/25/2022 11:21:49 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/26/2022 6:38:35 AM	66382
Surr: BFB	108	37.7-212	%Rec	1	3/26/2022 6:38:35 AM	66382
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/26/2022 6:38:35 AM	66382
Toluene	ND	0.047	mg/Kg	1	3/26/2022 6:38:35 AM	66382
Ethylbenzene	ND	0.047	mg/Kg	1	3/26/2022 6:38:35 AM	66382
Xylenes, Total	ND	0.095	mg/Kg	1	3/26/2022 6:38:35 AM	66382
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	3/26/2022 6:38:35 AM	66382

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-109

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:40:00 AM

 Lab ID:
 2203C72-018
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	5200	150	mg/Kg	50	3/31/2022 11:17:03 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	ED
Diesel Range Organics (DRO)	27	9.5	mg/Kg	1	3/25/2022 11:46:02 PM	66387
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/25/2022 11:46:02 PM	66387
Surr: DNOP	90.9	51.1-141	%Rec	1	3/25/2022 11:46:02 PM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2022 2:12:19 PM	66386
Surr: BFB	107	37.7-212	%Rec	1	3/25/2022 2:12:19 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 2:12:19 PM	66386
Toluene	ND	0.048	mg/Kg	1	3/25/2022 2:12:19 PM	66386
Ethylbenzene	ND	0.048	mg/Kg	1	3/25/2022 2:12:19 PM	66386
Xylenes, Total	ND	0.097	mg/Kg	1	3/25/2022 2:12:19 PM	66386
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	3/25/2022 2:12:19 PM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-110

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:42:00 AM

 Lab ID:
 2203C72-019
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	77	60	mg/Kg	20	3/30/2022 11:32:56 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/26/2022 12:10:18 AM	66387
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/26/2022 12:10:18 AM	66387
Surr: DNOP	76.6	51.1-141	%Rec	1	3/26/2022 12:10:18 AM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/25/2022 3:22:42 PM	66386
Surr: BFB	108	37.7-212	%Rec	1	3/25/2022 3:22:42 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/25/2022 3:22:42 PM	66386
Toluene	ND	0.049	mg/Kg	1	3/25/2022 3:22:42 PM	66386
Ethylbenzene	ND	0.049	mg/Kg	1	3/25/2022 3:22:42 PM	66386
Xylenes, Total	ND	0.099	mg/Kg	1	3/25/2022 3:22:42 PM	66386
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	3/25/2022 3:22:42 PM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-111

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:45:00 AM

 Lab ID:
 2203C72-020
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	3900	150	mg/Kg	50	3/31/2022 11:29:28 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	77	9.2	mg/Kg	1	3/26/2022 12:34:25 AM	66387
Motor Oil Range Organics (MRO)	64	46	mg/Kg	1	3/26/2022 12:34:25 AM	66387
Surr: DNOP	93.9	51.1-141	%Rec	1	3/26/2022 12:34:25 AM	66387
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2022 4:33:06 PM	66386
Surr: BFB	107	37.7-212	%Rec	1	3/25/2022 4:33:06 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 4:33:06 PM	66386
Toluene	ND	0.048	mg/Kg	1	3/25/2022 4:33:06 PM	66386
Ethylbenzene	ND	0.048	mg/Kg	1	3/25/2022 4:33:06 PM	66386
Xylenes, Total	ND	0.096	mg/Kg	1	3/25/2022 4:33:06 PM	66386
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	3/25/2022 4:33:06 PM	66386

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-112

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:50:00 AM

 Lab ID:
 2203C72-021
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1200	60	mg/Kg	20	3/30/2022 12:22:35 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	340	9.7	mg/Kg	1	3/28/2022 2:22:51 PM	66391
Motor Oil Range Organics (MRO)	240	48	mg/Kg	1	3/28/2022 2:22:51 PM	66391
Surr: DNOP	96.5	51.1-141	%Rec	1	3/28/2022 2:22:51 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/25/2022 4:56:36 PM	66386
Surr: BFB	106	37.7-212	%Rec	1	3/25/2022 4:56:36 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 4:56:36 PM	66386
Toluene	ND	0.047	mg/Kg	1	3/25/2022 4:56:36 PM	66386
Ethylbenzene	ND	0.047	mg/Kg	1	3/25/2022 4:56:36 PM	66386
Xylenes, Total	ND	0.094	mg/Kg	1	3/25/2022 4:56:36 PM	66386
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	3/25/2022 4:56:36 PM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-113

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 10:55:00 AM

 Lab ID:
 2203C72-022
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	2400	60		mg/Kg	20	3/30/2022 3:53:35 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	2700	190		mg/Kg	20	3/25/2022 12:58:17 PM	66391
Motor Oil Range Organics (MRO)	1500	960		mg/Kg	20	3/25/2022 12:58:17 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	20	3/25/2022 12:58:17 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Surr: BFB	108	37.7-212		%Rec	5	3/26/2022 9:46:27 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 9:46:27 AM	66386
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	5	3/26/2022 9:46:27 AM	66386

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-114

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:00:00 AM

 Lab ID:
 2203C72-023
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1500	60	mg/Kg	20	3/30/2022 4:06:00 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	540	48	mg/Kg	5	3/28/2022 4:10:27 PM	66391
Motor Oil Range Organics (MRO)	530	240	mg/Kg	5	3/28/2022 4:10:27 PM	66391
Surr: DNOP	62.9	51.1-141	%Rec	5	3/28/2022 4:10:27 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/25/2022 10:40:06 AM	66386
Surr: BFB	113	37.7-212	%Rec	5	3/25/2022 10:40:06 AM	66386
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 10:40:06 AM	66386
Toluene	ND	0.24	mg/Kg	5	3/25/2022 10:40:06 AM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/25/2022 10:40:06 AM	66386
Xylenes, Total	ND	0.48	mg/Kg	5	3/25/2022 10:40:06 AM	66386
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	5	3/25/2022 10:40:06 AM	66386

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-115

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:05:00 AM

 Lab ID:
 2203C72-024
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1800	60	mg/Kg	20	3/30/2022 4:18:25 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	170	9.6	mg/Kg	1	3/28/2022 3:16:57 PM	66391
Motor Oil Range Organics (MRO)	120	48	mg/Kg	1	3/28/2022 3:16:57 PM	66391
Surr: DNOP	88.5	51.1-141	%Rec	1	3/28/2022 3:16:57 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/25/2022 11:04:12 AM	66386
Surr: BFB	115	37.7-212	%Rec	5	3/25/2022 11:04:12 AM	66386
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 11:04:12 AM	66386
Toluene	ND	0.24	mg/Kg	5	3/25/2022 11:04:12 AM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/25/2022 11:04:12 AM	66386
Xylenes, Total	ND	0.48	mg/Kg	5	3/25/2022 11:04:12 AM	66386
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	5	3/25/2022 11:04:12 AM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-116

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:10:00 AM

 Lab ID:
 2203C72-025
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Un	its D	F	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	2600	150	mg	/Kg	50	3/31/2022 11:41:53 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	SB
Diesel Range Organics (DRO)	260	9.3	mg	/Kg <sup>-</sup>	1	3/28/2022 3:27:41 PM	66391
Motor Oil Range Organics (MRO)	180	47	mg	/Kg <sup>-</sup>	1	3/28/2022 3:27:41 PM	66391
Surr: DNOP	107	51.1-141	%F	Rec '	1	3/28/2022 3:27:41 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	23	mg	/Kg	5	3/25/2022 11:28:17 AM	66386
Surr: BFB	113	37.7-212	%F	Rec 5	5	3/25/2022 11:28:17 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.12	mg	/Kg	5	3/25/2022 11:28:17 AM	66386
Toluene	ND	0.23	mg	/Kg 5	5	3/25/2022 11:28:17 AM	66386
Ethylbenzene	ND	0.23	mg	/Kg	5	3/25/2022 11:28:17 AM	66386
Xylenes, Total	ND	0.47	mg	/Kg	5	3/25/2022 11:28:17 AM	66386
Surr: 4-Bromofluorobenzene	97.1	70-130	%F	Rec 5	5	3/25/2022 11:28:17 AM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-117

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:15:00 AM

 Lab ID:
 2203C72-026
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	980	60	mg/Kg	20	3/30/2022 12:59:50 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	38	9.9	mg/Kg	1	3/25/2022 1:41:07 PM	66391
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/25/2022 1:41:07 PM	66391
Surr: DNOP	99.0	51.1-141	%Rec	1	3/25/2022 1:41:07 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	3/25/2022 11:51:40 AM	66386
Surr: BFB	108	37.7-212	%Rec	5	3/25/2022 11:51:40 AM	66386
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 11:51:40 AM	66386
Toluene	ND	0.25	mg/Kg	5	3/25/2022 11:51:40 AM	66386
Ethylbenzene	ND	0.25	mg/Kg	5	3/25/2022 11:51:40 AM	66386
Xylenes, Total	ND	0.50	mg/Kg	5	3/25/2022 11:51:40 AM	66386
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	5	3/25/2022 11:51:40 AM	66386

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-118

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:20:00 AM

 Lab ID:
 2203C72-027
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	4400	150	mg/Kg	50	3/31/2022 11:54:17 AM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	930	47	mg/Kg	5	3/28/2022 4:31:44 PM	66391
Motor Oil Range Organics (MRO)	480	240	mg/Kg	5	3/28/2022 4:31:44 PM	66391
Surr: DNOP	94.0	51.1-141	%Rec	5	3/28/2022 4:31:44 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/26/2022 10:10:00 AM	66386
Surr: BFB	122	37.7-212	%Rec	5	3/26/2022 10:10:00 AM	66386
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	3/26/2022 10:10:00 AM	66386
Toluene	ND	0.24	mg/Kg	5	3/26/2022 10:10:00 AM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/26/2022 10:10:00 AM	66386
Xylenes, Total	ND	0.48	mg/Kg	5	3/26/2022 10:10:00 AM	66386
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	5	3/26/2022 10:10:00 AM	66386

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

Qualifiers:

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

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Lab Order 2203C72

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-119

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:30:00 AM

 Lab ID:
 2203C72-028
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	3300	150	mg/Kg	50	3/31/2022 12:06:42 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	480	9.7	mg/Kg	1	3/28/2022 3:38:24 PM	66391
Motor Oil Range Organics (MRO)	220	49	mg/Kg	1	3/28/2022 3:38:24 PM	66391
Surr: DNOP	99.1	51.1-141	%Rec	1	3/28/2022 3:38:24 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/25/2022 5:19:59 PM	66386
Surr: BFB	117	37.7-212	%Rec	5	3/25/2022 5:19:59 PM	66386
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 5:19:59 PM	66386
Toluene	ND	0.24	mg/Kg	5	3/25/2022 5:19:59 PM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/25/2022 5:19:59 PM	66386
Xylenes, Total	ND	0.48	mg/Kg	5	3/25/2022 5:19:59 PM	66386
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	5	3/25/2022 5:19:59 PM	66386

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

Qualifiers:

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

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Lab Order **2203C72** 

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-120

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 11:35:00 AM

 Lab ID:
 2203C72-029
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	4100	150	mg/Kg	50	3/31/2022 1:33:34 PM	66497
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	520	9.6	mg/Kg	1	3/28/2022 3:49:08 PM	66391
Motor Oil Range Organics (MRO)	220	48	mg/Kg	1	3/28/2022 3:49:08 PM	66391
Surr: DNOP	82.6	51.1-141	%Rec	1	3/28/2022 3:49:08 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/25/2022 5:43:21 PM	66386
Surr: BFB	136	37.7-212	%Rec	5	3/25/2022 5:43:21 PM	66386
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 5:43:21 PM	66386
Toluene	ND	0.24	mg/Kg	5	3/25/2022 5:43:21 PM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/25/2022 5:43:21 PM	66386
Xylenes, Total	ND	0.48	mg/Kg	5	3/25/2022 5:43:21 PM	66386
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	5	3/25/2022 5:43:21 PM	66386

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

2203C72 05-Apr-22

WO#:

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66450 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66450 RunNo: 86811

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065644 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66450 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **66450** RunNo: **86811** 

Prep Date: 3/28/2022 Analysis Date: 3/28/2022 SeqNo: 3065645 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.7 90 110

Sample ID: MB-66497 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66497 RunNo: 86850

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3069013 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66497 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66497 RunNo: 86850

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3069014 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.5 90 110

#### Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

2203C72 05-Apr-22

WO#:

Client: GHD Midland
Project: Yates Fee AS Battery

SampT	ype: <b>MS</b>	3	Tes	d 8015M/D: Diesel Range Organics					
Batch	ID: <b>66</b>	387	F	RunNo: 8	6773				
Analysis D	ate: 3/	25/2022	S	SeqNo: 3	064188	Units: mg/k	(g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
200	9.9	49.60	142.8	121	36.1	154			
4.5		4.960		90.8	51.1	141			
	Batch Analysis D Result	Batch ID: 66: Analysis Date: 3/ Result PQL 200 9.9	Batch ID: 66387  Analysis Date: 3/25/2022  Result PQL SPK value 200 9.9 49.60	Batch ID: 66387       Result PQL SPK value SPK Ref Val         Result 200       9.9       49.60       142.8	Batch ID: 66387       RunNo: 8         Analysis Date:       3/25/2022       SeqNo: 3         Result       PQL       SPK value       SPK Ref Val       %REC         200       9.9       49.60       142.8       121	Batch ID: 66387       RunNo: 86773         Analysis Date:       3/25/2022       SeqNo: 3064188         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         200       9.9       49.60       142.8       121       36.1	Batch ID: 66387       RunNo: 86773         Analysis Date: 3/25/2022       SeqNo: 3064188       Units: mg/k         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         200       9.9       49.60       142.8       121       36.1       154	Batch ID: 66387       RunNo: 86773         Analysis Date: 3/25/2022       SeqNo: 3064188       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         200       9.9       49.60       142.8       121       36.1       154	Batch ID: 66387       RunNo: 86773         Analysis Date: 3/25/2022       SeqNo: 3064188       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         200       9.9       49.60       142.8       121       36.1       154       154

Sample ID: 2203C72-001AMSD	SampTy	pe: MS	SD	l es	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH-92	Batch I	D: <b>66</b>	387	F	tunNo: 80	6773				
Prep Date: 3/24/2022	Analysis Da	te: <b>3/</b>	25/2022	S	eqNo: 30	064189	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	9.5	47.44	142.8	66.9	36.1	154	14.9	33.9	
Surr: DNOP	3.8		4.744		80.3	51.1	141	0	0	

Sample ID: LCS-66387	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 66387 RunNo: 86773											
Prep Date: 3/24/2022	Analysis D	ate: 3/	25/2022	S	SeqNo: 30	064209	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	43	10	50.00	0	85.8	68.9	135					
Surr: DNOP	4.2		5.000		84.1	51.1	141					

Sample ID: <b>MB-66387</b>	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	n ID: <b>66</b>	387	F	RunNo: 8	6773					
Prep Date: 3/24/2022	Analysis Date: 3/25/2022			8	SeqNo: 3	064210	Units: mg/Kg				
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	9.1		10.00		91.0	51.1	141				

Sample ID: LCS-66391	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: <b>66</b>	391	F	RunNo: 8	6774					
Prep Date: 3/24/2022	Analysis Date: 3/25/2022			SeqNo: 3064236			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	68.9	135				
Surr: DNOP	4.1		5.000		82.2	51.1	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

3.2

2203C72 05-Apr-22

WO#:

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66391 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 66391 RunNo: 86774 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3064238 Units: mq/Kq PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 9.4 93.6 51.1 141

Sample ID: 2203C72-021AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH-112 Batch ID: 66391 RunNo: 86781 Prep Date: 3/24/2022 Analysis Date: 3/28/2022 SeqNo: 3065092 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 380 9.4 47.08 337.5 86.2 36.1 154

Sample ID: 2203C72-021AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH-112 Batch ID: 66391 RunNo: 86781
Prep Date: 3/24/2022 Analysis Date: 3/28/2022 SeqNo: 3065093 Units: mg/Kg

67.8

51.1

141

4.708

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	9.9	49.41	337.5	-148	36.1	154	35.3	33.9	RS
Surr: DNOP	3.5		4.941		71.2	51.1	141	0	0	

#### Qualifiers:

Surr: DNOP

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C72** 

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampT	ype: <b>ME</b>	BLK	TestCode: EPA Method 8015D: Gasoline Range					е	
Client ID: PBS	Batch	ID: <b>66</b>	386	F	6765					
Prep Date: 3/24/2022	Analysis D	Analysis Date: 3/25/2022			SeqNo: 3063856 Units: mg/Kg					
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		107	37.7	212			
Sample ID: Ics-66386	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: <b>66</b>	386	F	RunNo: 80	6765				
		oto. 2/	25/2022	5	SeqNo: 30	063857	Units: mg/K	(a		
Prep Date: 3/24/2022	Analysis D	ate. 3/	23/2022	_	ocqivo. 3	003037	Office. Ing/14	9		
,	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 3/24/2022  Analyte Gasoline Range Organics (GRO)	•				•		ŭ	•	RPDLimit	Qual

Sample ID: 2203c72-018ams	SampT	ype: <b>MS</b>	3	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-109	Batch	n ID: <b>66</b> 3	386	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	)ate: <b>3/</b>	25/2022	S	SeqNo: 3	063859	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	5.0	24.75	0	133	70	130			S
Surr: BFB	2400		990.1		246	37.7	212			S

Sample ID: 2203c72-018amsd	SampT	уре: <b>М</b> S	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: BH-109	Batch	ID: <b>66</b>	386	R	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	ate: 3/	25/2022	S	SeqNo: 3	063860	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.18	0	128	70	130	5.62	20	
Surr: BFB	2400		967.1		252	37.7	212	0	0	S

Sample ID: <b>mb-66382</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: <b>66</b>	382	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	ate: 3/	26/2022	S	SeqNo: 3	063885	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: Ics-66382	SampType: <b>LCS</b>	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 66382	RunNo: 86765	
Prep Date: 3/24/2022	Analysis Date: 3/25/2022	SeqNo: <b>3063886</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C72** 

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: Ics-66382 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063886 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 23 5.0 25.00 93.3 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: 2203c72-001ams TestCode: EPA Method 8015D: Gasoline Range SampType: MS Client ID: BH-92 Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063888 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 25 4.8 24.08 0 105 130 Surr: BFB 2200 230 37 7 S 963.4 212

Sample ID: 2203c72-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH-92 Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063889 Units: mg/Kg Result SPK value SPK Ref Val %RPD **RPDLimit** %REC LowLimit HighLimit Qual Analyte PQL Gasoline Range Organics (GRO) 24 4.7 23.72 0 102 70 130 3.92 20 Surr: BFB 2200 948.8 232 37.7 212 0 0 S

#### Qualifiers:

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

Page 34 of 36

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C72** 

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386	SampT	Гуре: <b>МЕ</b>	BLK	Test	Code: El	iles				
Client ID: PBS	Batcl	Batch ID: <b>66386</b>			tunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	Date: <b>3/</b> 2	25/2022	S	eqNo: 3	063914	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Sample ID: LCS-66386	Samp1	Type: <b>LC</b>	S	Tes	tCode: El	iles				
Client ID: LCSS	Batc	h ID: <b>66</b> :	386	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis [	Date: 3/	25/2022	8	SeqNo: 3063915 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2203c72-019ams	Samp1	уре: МS	5	TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-110	Batc	n ID: <b>66</b> 3	386	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis [	Date: <b>3/</b> 2	25/2022	S	SeqNo: 3063918 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9699	0	101	68.8	120			
Toluene	1.1	0.048	0.9699	0	109	73.6	124			
Ethylbenzene	1.1	0.048	0.9699	0	112	72.7	129			
Xylenes, Total	3.3	0.097	2.910	0	112	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9699		101	70	130			

Sample ID: 2203c72-019amsd	SampT	ype: MS	SD.	TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-110	Batch	n ID: <b>66</b> 3	386	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	ate: <b>3/</b> 2	25/2022	S	SeqNo: 3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9681	0	98.0	68.8	120	3.15	20	
Toluene	1.0	0.048	0.9681	0	106	73.6	124	2.76	20	
Ethylbenzene	1.1	0.048	0.9681	0	110	72.7	129	2.75	20	
Xylenes, Total	3.2	0.097	2.904	0	109	75.7	126	3.20	20	
Surr: 4-Bromofluorobenzene	0.99		0.9681		103	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C72** 

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66382 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/26/2022 SeqNo: 3063943 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 97.9 70 130

Sample ID: LCS-66382 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 66382 RunNo: 86765 Analysis Date: 3/25/2022 SeaNo: 3063944 Prep Date: 3/24/2022 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 80 120 0.83 U 82.5 Benzene Toluene 0.88 0.050 1.000 0 88.0 80 120 0.050 0 89.8 80 120 0.90 1.000 Ethylbenzene 0 89.5 Xylenes, Total 2.7 0.10 3.000 80 120 130 Surr: 4-Bromofluorobenzene 1 0 1.000 102 70

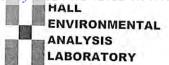
Sample ID: 2203c72-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-93 Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063947 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.024 0.9425 98.6 68.8 0.93 120 Benzene n Toluene 1.0 0.047 0.9425 0 107 73.6 124 0.9425 0 72.7 129 Ethylbenzene 1.0 0.047110 Xylenes, Total 3.1 0.094 2.828 0 109 75.7 126 Surr: 4-Bromofluorobenzene 0.90 0.9425 95.1 130 70

TestCode: EPA Method 8021B: Volatiles Sample ID: 2203c72-002amsd SampType: MSD Client ID: BH-93 Batch ID: 66382 RunNo: 86765 Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063948 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.81 0.023 0.9346 0 87.0 68.8 120 13.4 20 Benzene Toluene 0.89 0.047 0.9346 0 95.3 73.6 124 12.7 20 Ethylbenzene 0.92 0.047 0.9346 0 97.9 72.7 129 129 20 Xylenes, Total 2.7 0.093 2.804 0 97.0 75.7 126 12.2 20 0 Surr: 4-Bromofluorobenzene 0.89 0.9346 95.4 70 130 n

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: GHD Midland	Work Order Nur	mber: 2203C72		RcptNo: 1
Received By: Cheyenne Cason	3/24/2022 7:30:00	) AM	Chul	
Completed By: Sean Livingston	3/24/2022 8:15:54		Chul	,
Reviewed By: KPG 3/24/22			J-L	not-
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In				
3. Was an attempt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗌
4. Were all samples received at a temperat	ure 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 tes	st(s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) proj	perly preserved?	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 bro		Yes	No 🗹	
11. Does paperwork match bottle labels?		Yes 🔽	No 🗆	# of preserved bottles checked for pH:
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain	of Control O			(<2 or >12 unless noted) Adjusted?
13. Is it clear what analyses were requested?	of Custody?	Yes 🗸	No 📙	Adjusted?
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	Checked by: The 3/24/22
Special Handling (if applicable)			1	
15. Was client notified of all discrepancies wi	th this order?	Yes	No 🗆	NA 🗹
Person Notified:	Date:			
By Whom:	Via:	eMail P	hone  Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	
1 1.1 Good			eignou by	

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ng: 9	Mailing Address:	SS:		- Yati Fee	As Batton	face	,	2	WWW	www.hallenvironmental.com	vironn	ental.c	шо		
9,00	W. Main S	St. Suite 10	324 W. Main St. Suite 108, Artesia NM 88210	Project #:			4 1	4901 Hawkins NE -	VKINS	E - A	enbng	rque, N	Albuquerque, NM 87109	•	
	Je #:	(505)377-4218	7-4218	11728401				lel. 505-	505-345-3975	75	Fax 5	505-345-4107	4107		l
	email or Fax#:		Becky. Haskell@ghd.com	Project Manager:	Jer.					Ana	ysis r	Analysis Kequest	-		
0/P 4:33	QA/QC Package:	.;		Becky Haskell				S	9	os		(Juə			
	Standard		☐ Level 4 (Full Validation)	Tom Larson				CB	SWIS	, <sub>b</sub> O		sdA			
Accre	Accreditation:		☐ Az Compliance ☐ Other	100	Zach Comino	C				10st F			(605		
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30	To lame:	Relinquished by:	d by:	1	Via:	ate	Mat	thew.La	aughlin	@ghd.	com: A	long w	ith Becky	Matthew.Laughlin@ghd.com; Along with Becky Haskell	
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Released to Imaging: 9/2/2022 9:24:33 AM

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add ambor Artifina es mount. Iam to mults

ANALYSIS LABORATORY HALL ENVIRONMENTAL Remarks: Please email: Chase\_Settle@eogresources.com; Matthew.Laughlin@ghd.com: Along with Becky Haskell Tom.Larson@ghd.com; Zach.Comino@ghd.com If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 Direct Bill to EOG Chase Settle Matton www.hallenvironmental.com 310 Chlarite Analysis Request Total Coliform (Present/Absent) isted above. (AOV-ima2) 07S8 (AOV) 03S8 "EON NO2, PO4, SO4 Br, CI' E' Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's TPH:8015D(GRO / DRO / MRO) BTEX / MTBE / TMB's (8023) 1001 3/24/w 0736 HEAL No. Time OCT Time いら Q 410 220 019 7 120 220 520 570 3/13/12 Cooler Temp(induding cF):  $1 \sim 2 - 0$ . Date 2 Rush K Bathon Zach Comino Preservative XYes Turn-Around Time: York Fe As alluming Via: Project Manager: El Standard Project Name: Becky Haskell # of Coolers: 19:877/ Tom Larson Type and # Project #: Container Sampler: Received by: On Ice: Received by: 30 ☐ Level 4 (Full Validation) Chain-of-Custody Record Sample Name F 324 W. Main St. Suite 108, Artesia NM 88210 Becky. Haskell@ghd.com Muchal alumne BM-105 BH- 108 911-110 8H, 106 BM-107 BM-109 BMILL 811-114 BM-115 ☐ Az Compliance BH-113 BN-III (505)377-4218 Mittell Cleary, Relinquished by: Relinquished by: □ Other Matrix Mailing Address: email or Fax#: QA/QC Package Time ☐ EDD (Type) Client: GHD 1900 Accreditation: 10-42 □ Standard (N.20 1035 01,0) (045 (050) (107) 1030 COD (055 1105 Time: (10) Time: O NELAC 000 Phone #: Date 88/33 03222 03.222 Date:

Client: GHD	Turn-Around Time:	5 vay	HALL ENVIRO	ENVIRONMENTAL
	Project Name:		ANALYSIS LABORATORY	SORATORY
Mailing Address:	Yorks Fee hother		<u>=</u>	ų.
324 W. Main St. Suite 108, Artesia NM 88210	Project #:		₹ .	M 87109
Phone #: (505)377-4218	11228401		Tel. 505-345-3975 Fax 505-345-4107	4107
email or Fax#: Becky.Haskell@ghd.com	Project Manager:		4	
QA/QC Package:   Standard  Level 4 (Full Validation)	Becky Haskell Tom Larson			
☐ Az Compliance ☐ Other	150	0	4.0BQ (1.30) PG (2.50) PG	(000
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Time Matrix Sample Name	Container Preservative Type and #		991:8016 98 (Mer 198 (Mer 199 (Me	Aloride
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1131 J BH1202	-	570		
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o Column	received by: Via:	Date Time	Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.	η Becky Haskell

other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Smby\_ Sciffind and resources 1.15



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

April 05, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Yates Fee AS Battery OrderNo.: 2203C86

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 11 sample(s) on 3/24/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2203C86

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-121

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:25:00 PM

 Lab ID:
 2203C86-001
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	5100	300		mg/Kg	100	3/31/2022 11:18:13 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	2100	96		mg/Kg	10	3/28/2022 5:03:58 PM	66391
Motor Oil Range Organics (MRO)	950	480		mg/Kg	10	3/28/2022 5:03:58 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/28/2022 5:03:58 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Surr: BFB	140	37.7-212		%Rec	5	3/26/2022 10:33:42 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Ethylbenzene	ND	0.24		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Xylenes, Total	ND	0.48		mg/Kg	5	3/26/2022 10:33:42 AM	66386
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	5	3/26/2022 10:33:42 AM	66386

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

Qualifiers:

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

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# Analytical Report Lab Order 2203C86

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-122

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:30:00 PM

 Lab ID:
 2203C86-002
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	4700	150	mg/Kg	50	3/31/2022 11:30:34 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	52	9.5	mg/Kg	1	3/25/2022 2:45:24 PM	66391
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/25/2022 2:45:24 PM	66391
Surr: DNOP	108	51.1-141	%Rec	1	3/25/2022 2:45:24 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/25/2022 6:30:30 PM	66386
Surr: BFB	107	37.7-212	%Rec	5	3/25/2022 6:30:30 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	3/25/2022 6:30:30 PM	66386
Toluene	ND	0.24	mg/Kg	5	3/25/2022 6:30:30 PM	66386
Ethylbenzene	ND	0.24	mg/Kg	5	3/25/2022 6:30:30 PM	66386
Xylenes, Total	ND	0.49	mg/Kg	5	3/25/2022 6:30:30 PM	66386
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	5	3/25/2022 6:30:30 PM	66386

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

Qualifiers:

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

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# Analytical Report Lab Order 2203C86

Date Reported: 4/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-123

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:35:00 PM

 Lab ID:
 2203C86-003
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	6100	300		mg/Kg	100	3/31/2022 11:42:55 AM	66498
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	6300	97		mg/Kg	10	3/29/2022 12:38:54 PM	66391
Motor Oil Range Organics (MRO)	2100	480		mg/Kg	10	3/29/2022 12:38:54 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/29/2022 12:38:54 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	370	93		mg/Kg	20	3/25/2022 9:28:23 AM	66386
Surr: BFB	254	37.7-212	S	%Rec	20	3/25/2022 9:28:23 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.46	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Toluene	ND	0.93	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Ethylbenzene	13	0.93	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Xylenes, Total	16	1.9	D	mg/Kg	20	3/25/2022 9:28:23 AM	66386
Surr: 4-Bromofluorobenzene	118	70-130	D	%Rec	20	3/25/2022 9:28:23 AM	66386

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-18

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:40:00 PM

 Lab ID:
 2203C86-004
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	6100	300		mg/Kg	100	3/31/2022 11:55:16 AM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	3500	180		mg/Kg	20	3/25/2022 3:06:56 PM	66391
Motor Oil Range Organics (MRO)	1300	910		mg/Kg	20	3/25/2022 3:06:56 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	20	3/25/2022 3:06:56 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	120	24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Surr: BFB	335	37.7-212	S	%Rec	5	3/26/2022 10:57:24 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Ethylbenzene	3.0	0.24		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Xylenes, Total	2.2	0.48		mg/Kg	5	3/26/2022 10:57:24 AM	66386
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	3/26/2022 10:57:24 AM	66386

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-19

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:45:00 PM

 Lab ID:
 2203C86-005
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	4000	150		mg/Kg	50	3/31/2022 12:07:36 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	1500	98		mg/Kg	10	3/25/2022 3:17:51 PM	66391
Motor Oil Range Organics (MRO)	700	490		mg/Kg	10	3/25/2022 3:17:51 PM	66391
Surr: DNOP	0	51.1-141	S	%Rec	10	3/25/2022 3:17:51 PM	66391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	51	24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Surr: BFB	239	37.7-212	S	%Rec	5	3/26/2022 11:21:06 AM	66386
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Toluene	ND	0.24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Ethylbenzene	0.42	0.24		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Xylenes, Total	ND	0.49		mg/Kg	5	3/26/2022 11:21:06 AM	66386
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	5	3/26/2022 11:21:06 AM	66386

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-20

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:50:00 PM

 Lab ID:
 2203C86-006
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	4200	150	mg/Kg	50	3/31/2022 12:19:57 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/25/2022 3:28:47 PM	66391
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/25/2022 3:28:47 PM	66391
Surr: DNOP	116	51.1-141	%Rec	1	3/25/2022 3:28:47 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/25/2022 8:04:56 PM	66386
Surr: BFB	106	37.7-212	%Rec	1	3/25/2022 8:04:56 PM	66386
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 8:04:56 PM	66386
Toluene	ND	0.047	mg/Kg	1	3/25/2022 8:04:56 PM	66386
Ethylbenzene	ND	0.047	mg/Kg	1	3/25/2022 8:04:56 PM	66386
Xylenes, Total	ND	0.095	mg/Kg	1	3/25/2022 8:04:56 PM	66386
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	3/25/2022 8:04:56 PM	66386

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-21

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 1:55:00 PM

 Lab ID:
 2203C86-007
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	3700	150	mg/Kg	50	3/31/2022 12:32:18 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/25/2022 3:39:40 PM	66391
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/25/2022 3:39:40 PM	66391
Surr: DNOP	120	51.1-141	%Rec	1	3/25/2022 3:39:40 PM	66391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2022 8:28:22 PM	66386
Surr: BFB	108	37.7-212	%Rec	1	3/25/2022 8:28:22 PM	66386
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/25/2022 8:28:22 PM	66386
Toluene	ND	0.048	mg/Kg	1	3/25/2022 8:28:22 PM	66386
Ethylbenzene	ND	0.048	mg/Kg	1	3/25/2022 8:28:22 PM	66386
Xylenes, Total	ND	0.095	mg/Kg	1	3/25/2022 8:28:22 PM	66386
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	3/25/2022 8:28:22 PM	66386

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-22

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 2:00:00 PM

 Lab ID:
 2203C86-008
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2700	150	mg/Kg	50	3/31/2022 1:09:21 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	11	9.2	mg/Kg	1	3/29/2022 10:38:37 PM	66452
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/29/2022 10:38:37 PM	66452
Surr: DNOP	72.2	51.1-141	%Rec	1	3/29/2022 10:38:37 PM	66452
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/28/2022 6:35:00 PM	66412
Surr: BFB	102	37.7-212	%Rec	1	3/28/2022 6:35:00 PM	66412
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	3/28/2022 6:35:00 PM	66412
Toluene	ND	0.049	mg/Kg	1	3/28/2022 6:35:00 PM	66412
Ethylbenzene	ND	0.049	mg/Kg	1	3/28/2022 6:35:00 PM	66412
Xylenes, Total	ND	0.099	mg/Kg	1	3/28/2022 6:35:00 PM	66412
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	3/28/2022 6:35:00 PM	66412

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

Qualifiers:

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

popule pH Not In Range
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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-23

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 2:05:00 PM

 Lab ID:
 2203C86-009
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	5200	300	mg/Kg	100	0 3/31/2022 1:21:42 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	11	9.6	mg/Kg	1	3/29/2022 10:49:10 PM	66452
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2022 10:49:10 PM	66452
Surr: DNOP	77.4	51.1-141	%Rec	1	3/29/2022 10:49:10 PM	66452
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/28/2022 8:13:00 PM	66412
Surr: BFB	98.0	37.7-212	%Rec	1	3/28/2022 8:13:00 PM	66412
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	3/28/2022 8:13:00 PM	66412
Toluene	ND	0.048	mg/Kg	1	3/28/2022 8:13:00 PM	66412
Ethylbenzene	ND	0.048	mg/Kg	1	3/28/2022 8:13:00 PM	66412
Xylenes, Total	ND	0.096	mg/Kg	1	3/28/2022 8:13:00 PM	66412
Surr: 4-Bromofluorobenzene	81.2	70-130	%Rec	1	3/28/2022 8:13:00 PM	66412

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-24

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 2:10:00 PM

 Lab ID:
 2203C86-010
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	6400	300		mg/Kg	100	3/31/2022 1:34:02 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	1400	95		mg/Kg	10	3/30/2022 6:44:42 PM	66452
Motor Oil Range Organics (MRO)	650	480		mg/Kg	10	3/30/2022 6:44:42 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	10	3/30/2022 6:44:42 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Surr: BFB	128	37.7-212		%Rec	5	3/28/2022 9:12:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst	: BRM
Benzene	ND	0.12		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Toluene	ND	0.25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Ethylbenzene	ND	0.25		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Xylenes, Total	ND	0.50		mg/Kg	5	3/28/2022 9:12:00 PM	66412
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	5	3/28/2022 9:12:00 PM	66412

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

Qualifiers:

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

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Date Reported: 4/5/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-25

 Project:
 Yates Fee AS Battery
 Collection Date: 3/22/2022 2:15:00 PM

 Lab ID:
 2203C86-011
 Matrix: SOIL
 Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	7300	300		mg/Kg	100	3/31/2022 1:46:23 PM	66517
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	2400	96		mg/Kg	10	3/30/2022 6:34:00 PM	66452
Motor Oil Range Organics (MRO)	930	480		mg/Kg	10	3/30/2022 6:34:00 PM	66452
Surr: DNOP	0	51.1-141	S	%Rec	10	3/30/2022 6:34:00 PM	66452
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Surr: BFB	154	37.7-212		%Rec	5	3/28/2022 9:31:00 PM	66412
EPA METHOD 8021B: VOLATILES						Analyst	: BRM
Benzene	ND	0.12		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Toluene	ND	0.24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Ethylbenzene	ND	0.24		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Xylenes, Total	ND	0.49		mg/Kg	5	3/28/2022 9:31:00 PM	66412
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	5	3/28/2022 9:31:00 PM	66412

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86 05-Apr-22** 

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66498 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66498 RunNo: 86869

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3068829 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-66498 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66498 RunNo: 86869

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3068830 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 90 110

Sample ID: MB-66517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66517 RunNo: 86869

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3068868 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66517 RunNo: 86869

Prep Date: 3/30/2022 Analysis Date: 3/30/2022 SeqNo: 3068869 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86** 

05-Apr-22

Client:	GHD Midland
Project:	Yates Fee AS Battery

Project: Yates Fe	e AS Batte									
Sample ID: LCS-66391	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: <b>66</b> 3	391	F	RunNo: 8	6774				
Prep Date: 3/24/2022	Analysis D	ate: <b>3/</b>	25/2022	5	SeqNo: <b>3064236</b>		Units: mg/h	<b>K</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	68.9	135			
Surr: DNOP	4.1		5.000		82.2	51.1	141			
Sample ID: MB-66391	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: <b>66</b> 3	391	F	RunNo: 8	6774				
Prep Date: 3/24/2022	Analysis D	ate: 3/	25/2022	5	SeqNo: 3	064238	Units: mg/k	<b>K</b> 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	9.4		10.00		93.6	51.1	141			
Sample ID: 2203C86-008AMS	SampT	ype: <b>MS</b>	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SW-22	Batch	n ID: <b>66</b> 4	452	F	RunNo: 8	6803				
Prep Date: 3/28/2022	Analysis D	ate: <b>3/</b>	30/2022	\$	SeqNo: 3	066717	Units: mg/h	≺g		
Prep Date: 3/28/2022 Analyte	Analysis D Result	PQL		SPK Ref Val	·	066717 LowLimit	Units: mg/h HighLimit	<b>Kg</b> %RPD	RPDLimit	Qual
	•				·		Ū	Ū	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	Ū	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result 50 3.5	PQL	SPK value 48.88 4.888	SPK Ref Val	%REC 79.7 71.5	LowLimit 36.1 51.1	HighLimit 154	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP	Result 50 3.5  SampT	PQL 9.8	SPK value 48.88 4.888	SPK Ref Val 10.93	%REC 79.7 71.5	26.1 51.1 29 Method	HighLimit 154 141	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS	Result 50 3.5  SampT	9.8 ype: <b>MS</b> 1D: <b>66</b> 4	SPK value 48.88 4.888 6D 452	SPK Ref Val 10.93 Tes	%REC 79.7 71.5 tCode: <b>EI</b>	26.1 51.1 PA Method	HighLimit 154 141	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22	Result 50 3.5  GD SampT Batch	9.8 ype: <b>MS</b> 1D: <b>66</b> 4	SPK value 48.88 4.888 6D 452 30/2022	SPK Ref Val 10.93 Tes	%REC 79.7 71.5 tCode: El RunNo: 8	26.1 51.1 PA Method	HighLimit 154 141 8015M/D: Di	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022	Result 50 3.5  GD SampT Batch Analysis D	9.8 Type: <b>MS</b> on ID: <b>66</b> 4 Pate: <b>3</b> /	SPK value 48.88 4.888 6D 452 30/2022	SPK Ref Val 10.93 Tes	%REC 79.7 71.5 tCode: El RunNo: 8	26.1 26.1 26.1 26.1 26.1 26.1 26.1 26.1	HighLimit 154 141  8015M/D: Di  Units: mg/h	%RPD	e Organics	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte	Result 50 3.5  GD SampT Batch Analysis D Result	PQL 9.8 Type: <b>MS</b> on ID: <b>66</b> 4 PQL	SPK value 48.88 4.888 6D 452 30/2022 SPK value	SPK Ref Val 10.93 Tes F SPK Ref Val	%REC 79.7 71.5 tCode: EI RunNo: 86 SeqNo: 36	26.1 36.1 51.1 PA Method 6803 066718 LowLimit	HighLimit 154 141 8015M/D: Di Units: mg/F	%RPD	e Organics RPDLimit	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte Diesel Range Organics (DRO)	Result 50 3.5  SD SampT Batch Analysis D Result 52 3.5	PQL 9.8 Type: <b>MS</b> on ID: <b>66</b> 4 PQL	SPK value 48.88 4.888  6D 452 30/2022  SPK value 49.07 4.907	SPK Ref Val 10.93 Tes F SPK Ref Val 10.93	%REC 79.7 71.5 tCode: EI RunNo: 8 SeqNo: 3 %REC 83.1 72.0	LowLimit	HighLimit 154 141 8015M/D: Di Units: mg/k HighLimit 154	%RPD  desel Range  Kg  %RPD  3.58  0	e Organics  RPDLimit  33.9 0	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP	Result 50 3.5  SD SampT Batch Analysis D Result 52 3.5  SampT	9.8  Type: MS  Type: MS  PQL  9.8	SPK value 48.88 4.888  452 30/2022 SPK value 49.07 4.907	SPK Ref Val 10.93 Tes SPK Ref Val 10.93	%REC 79.7 71.5 tCode: EI RunNo: 8 SeqNo: 3 %REC 83.1 72.0	LowLimit	HighLimit 154 141  8015M/D: Di  Units: mg/k HighLimit 154 141	%RPD  desel Range  Kg  %RPD  3.58  0	e Organics  RPDLimit  33.9 0	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: LCS-66452	Result 50 3.5  SD SampT Batch Analysis D Result 52 3.5  SampT	PQL 9.8  Type: MS PQL 9.8  PQL 9.8  Type: LC	SPK value	SPK Ref Val 10.93 Tes SPK Ref Val 10.93	%REC 79.7 71.5 tCode: EI RunNo: 86 SeqNo: 36 %REC 83.1 72.0	LowLimit	HighLimit 154 141  8015M/D: Di  Units: mg/k HighLimit 154 141	%RPD  esel Range  %RPD  3.58 0	e Organics  RPDLimit  33.9 0	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: LCS-66452 Client ID: LCSS Prep Date: 3/28/2022 Analyte	Result 50 3.5  SD SampT Batch Analysis D Result 52 3.5  SampT Batch	PQL 9.8  Type: MS PQL 9.8  PQL 9.8  Type: LC	SPK value 48.88 4.888 452 30/2022 SPK value 49.07 4.907 S 452 29/2022	SPK Ref Val 10.93 Tes SPK Ref Val 10.93	%REC 79.7 71.5 tCode: EI RunNo: 8 SeqNo: 3 %REC 83.1 72.0 tCode: EI RunNo: 8 SeqNo: 3	LowLimit	HighLimit 154 141  8015M/D: Di  Units: mg/k HighLimit 154 141  8015M/D: Di	%RPD  esel Range  %RPD  3.58 0	e Organics  RPDLimit  33.9 0	
Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2203C86-008AMS Client ID: SW-22 Prep Date: 3/28/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: LCS-66452 Client ID: LCSS Prep Date: 3/28/2022	Result 50 3.5  BD SampT Batch Analysis D Result 52 3.5  SampT Batch Analysis D	PQL 9.8  Type: MS at ID: 664  PQL 9.8  Type: LC at ID: 664  Date: 3/	SPK value 48.88 4.888 452 30/2022 SPK value 49.07 4.907 S 452 29/2022	SPK Ref Val 10.93  Tes SPK Ref Val 10.93  Tes	%REC 79.7 71.5 tCode: EI RunNo: 8 %REC 83.1 72.0 tCode: EI RunNo: 8 SeqNo: 3	LowLimit 36.1 51.1 PA Method 6803 066718 LowLimit 36.1 51.1 PA Method 6803 066792	HighLimit 154 141  8015M/D: Di  Units: mg/k HighLimit 154 141  8015M/D: Di  Units: mg/k	%RPD  desel Range  Kg  %RPD  3.58 0  desel Range	e Organics  RPDLimit  33.9 0  e Organics	Qual

#### Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86 05-Apr-22** 

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: MB-66452 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66452 RunNo: 86803

Prep Date: 3/28/2022 Analysis Date: 3/29/2022 SeqNo: 3066796 Units: mg/Kg

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 12 10.00 117 51.1 141

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86 05-Apr-22** 

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66386 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063856 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 107 37.7 212

Sample ID: Ics-66386 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66386 RunNo: 86765

Prep Date: 3/24/2022 Analysis Date: 3/25/2022 SeqNo: 3063857 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 108 72.3 137 Surr: BFB S 2200 1000 224 37 7 212

Sample ID: Ics-66412 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 66412 RunNo: 86795 Prep Date: 3/25/2022 Analysis Date: 3/28/2022 SeqNo: 3065000 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) 31 5.0 25.00 0 124 72.3 137 Surr: BFB 2300 1000 231 37.7 212 S

Sample ID: mb-66412 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 66412 RunNo: 86795 Prep Date: 3/25/2022 Analysis Date: 3/28/2022 SeqNo: 3065001 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 109 37.7 212

Sample ID: 2203c86-008ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SW-22 Batch ID: 66412 RunNo: 86795 Prep Date: 3/25/2022 Analysis Date: 3/28/2022 SeqNo: 3065021 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 4.8 0 115 70 24.13 130 S Surr: BFB 2100 965.3 220 37.7 212

Sample ID: 2203c86-008amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-22** Batch ID: **66412** RunNo: **86795** 

Prep Date: 3/25/2022 Analysis Date: 3/28/2022 SeqNo: 3065022 Units: mg/Kg

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

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C86

05-Apr-22

**Client: GHD** Midland **Project:** Yates Fee AS Battery

Sample ID: 2203c86-008amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW-22 Batch ID: 66412 RunNo: 86795

Prep Date: 3/25/2022 Analysis Date: 3/28/2022 SeqNo: 3065022 Units: mg/Kg

-	-						_	_		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.61	0	111	70	130	0.917	20	
Surr: BFB	2200		984.3		220	37.7	212	0	0	S

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86** *05-Apr-22* 

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: mb-66386 Client ID: PBS	•	Type: <b>ME</b>			tCode: El		8021B: Volat	iles		
Prep Date: 3/24/2022	Analysis D		25/2022		SeqNo: 3		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Sample ID: LCS-66386	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>El</b>	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: <b>66</b> 3	386	F	RunNo: 8	6765				
Prep Date: 3/24/2022	Analysis D	Date: 3/2	25/2022	8	SeqNo: 3	063915	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			_
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: Ics-66412	SampT	ype: <b>LC</b>	TestCode: EPA Method 8021B: Volatiles				TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: <b>66</b> 4	412	RunNo: <b>86795</b>										
Prep Date: 3/25/2022	Analysis D	Date: 3/2	28/2022	S	SeqNo: 30	065042	42 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.85	0.025	1.000	0	85.3	80	120							
Toluene	0.89	0.050	1.000	0	88.9	80	120							
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120							
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120							
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130							

Sample ID: mb-66412	SampT	ype: <b>ME</b>	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	1D: <b>66</b>	412	RunNo: <b>86795</b>						
Prep Date: 3/25/2022	Analysis D	ate: 3/	28/2022	S	SeqNo: 3	065043	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025			•			•		
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2203C86** 

05-Apr-22

Client: GHD Midland
Project: Yates Fee AS Battery

Sample ID: 2203c86-009ams	SampT	SampType: MS TestCode: EPA Method 8						iles		
Client ID: SW-23	Batcl	n ID: <b>66</b> 4	ID: <b>66412</b> RunNo: <b>86795</b>							
Prep Date: 3/25/2022	Analysis D	)ate: <b>3/</b>	28/2022	S	SeqNo: 3	065064	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9921	0	81.0	68.8	120			
Toluene	0.84	0.050	0.9921	0	85.1	73.6	124			
Ethylbenzene	0.86	0.050	0.9921	0	87.1	72.7	129			
Xylenes, Total	2.6	0.099	2.976	0	86.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9921		82.3	70	130			

Sample ID: 2203c86-009amsc	<b>J</b> SampT	уре: <b>М</b>	SD	TestCode: EPA Method 8021B: Volatiles							
Client ID: SW-23	Batch	n ID: <b>66</b> 4	412	RunNo: <b>86795</b>							
Prep Date: 3/25/2022	Analysis D	)ate: <b>3/</b>	28/2022	S	SeqNo: 3	065065	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.81	0.025	0.9901	0	82.3	68.8	120	1.39	20		
Toluene	0.86	0.050	0.9901	0	87.0	73.6	124	1.93	20		
Ethylbenzene	0.88	0.050	0.9901	0	89.1	72.7	129	1.99	20		
Xylenes, Total	2.6	0.099	2.970	0	88.9	75.7	126	2.09	20		
Surr: 4-Bromofluorobenzene	0.84		0.9901		84.8	70	130	0	0		

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Client Name:	GHD Midland	Work Order Num	nber: 2203C86		RcptNo: 1
Received By:	Cheyenne Cason	3/24/2022 7:30:00	AM	Chul	
Completed By:	Desiree Dominguez	3/24/2022 9:35:19	AM	17	
Reviewed By:	cm	3/rule		1-3	
Chain of Cus	stody				
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In					
The second second	npt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗆
4. Were all samp	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗌
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient sam	pple volume for indicated tes	t(s)?	Yes 🗸	No 🗌	
7. Are samples (	except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌	
8. Was preserva	tive added to bottles?		Yes	No 🗸	NA 🗆
9. Received at le	east 1 vial with headspace <	I/4" for AQ VOA?	Yes	No 🗆	NA 🗹
10. Were any san	nple containers received bro	ken?	Yes	No 🗸	
I 1 Door nananya	ork match bottle labels?				# of preserved bottles checked
	ancies on chain of custody)		Yes 🗸	No 🗔	for pH: (<2 or >12 unless noted
	correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?
	analyses were requested?		Yes 🗸	No 🗆	
	ng times able to be met? ustomer for authorization.)		Yes 🗸	No 🗆	Checked by: 3/24/22
	ing (if applicable)			/	
	tified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🗹
Person	Notified:	Date:			11.1
By Who		Via:	124 July 200	Phone  Fax	□ In Power
Regardi	ng:	VIII.	Civiali F	Tione rax	In Person
Client In	structions:				
6. Additional ren	narks:				
7. <u>Cooler Information</u> Cooler No	Figure 22 and a second second in	Seal Intact Seal No	Seal Date	Signed By	

Mailing Address:   Project Name:   Project N	1	Project Manager:
Yorks   Fu, h 5 h t v	V. Main St. Suite 108. Artesia NM 88210         Project Name:           V. Main St. Suite 108. Artesia NM 88210         Project Name:           e #: (505)377-4218         Project #:           or Fax#: Becky.Haskell@qhd.com         Project Manager:           Package:         □ Level 4 (Full Validation)         Tom Larson           Indiation:         □ Level 4 (Full Validation)         Tom Larson           Indiation:         □ Compliance         Sampler:         Zach Comino On Les:           Indiation:         □ Cother         A Yes           Indiation:         □ Wh 122         D Yer           Indiation:         Indiation:         Indiation:           Indiation:         Indiation:         Indiation:           Indiation:         Indiation:         Indiation:           Indiation:         Indiation:         Indiation:	Project Name:
Q Address:         Ψ Address:         Ψ Address:         Ψ Address:         A But to the total Artesia NAM 88210         Project #:         Tel. 505-           P Complexity:         1   2 ≤ Ψ 4)         Froject #:         Froject #:         Froject #:         Tel. 505-           P Project Manager:         Project Manager:         Becky Haskell@ohd com         Project Manager:         Tel. 505-           P Project Manager:         Becky Haskell         Good Freezer Manager:         Good Freezer Manager:         Freezer Manager:           Accompliance         Orther         Sample:         Zect Comino         Tel. 505-           Loc         Orther         Onther         A Cooler Temperature of Type and # Type         The peace of Type and # Type           Time         Matrix         Sample:         Zect Cooler Temperature of Type and # Type         Zect Cooler Temperature of Type and # Type           Time         Matrix         Sample:         Zect Cooler Temperature of Type and # Type         Zect Cooler Temperature of Type and # Type           Time         Matrix         Sample:         Zect Cooler Temperature of Type and # Type         Zect Cooler Temperature of Type and # Type           Time         Section of Type and # Type         Zect Cooler Temperature of Type and # Type         Zect Cooler Temperature of Type and # Type           Time:	Value         Feet         Ab         BN           V. Main St. Suite 108, Artesia NM 88210         Project #:         Project #:           e #:         (505)377-4218         Project Manager:           or Fax#:         Beckv. Haskell@ahd.com         Project Manager:           2 Package:         □ Level 4 (Full Validation)         Tom Larson           Gitation:         □ Az Compliance         Sampler:         Zach Comino           LAC         □ Other         Sampler:         X Yes           LAC         □ Other         Sampler:         X Yes           LAC         □ Other         Sh4-121         Scooler Templineluting CP: 1, Z           L35         5 M-121         Scooler Templineluting CP: 1, Z           L35         5 M-122         Scooler Templineluting CP: 1, Z           L35         5 M-120         Scooler Templineluting CP: 1, Z           L35         5 M-22         Scooler Templineluting CP: 1, Z           L416         5 M-22	Yorks Fee A5 Barton   4901 Haw   Project #: Tel. 505-3
W Main St. Suite 108, Artesia NIM 88210         Project #:         Color Tax#         Project Manager:           or Fax#         Becky Haskell@ahd.com         Project Manager:         Becky Haskell           project Manager:         Becky Haskell         Tom Larson           project Manager:         Becky Haskell           project Manager:         Becky Haskell           project Manager:         Becky Haskell           project Manager:         Becky Haskell           project Manager:         Decky Haskell           project Manager:         Date Time           project Manager:         Date Time           project Manager:         Date Time           project Manager:         Date Time           project Manager:	V. Main St. Suite 108, Artesia NM 88210         Project #:         Project Manager:         P	Project #: Tel. 505-345-3975   Project Manager:   All 1907   All
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Time   Matrix   Sample   Name   Container   Type and # Type and	Time Matrix Sample Name         Container Type and # Type         Preservative           1335         5M-121         5x           1335         6M-121         5x           1335         6M-122         5x           1345         5W-123         5x-18           1350         5W-12         5x           1350         5w-20         5x           1400         5w-22         5w-23           1410         5w-23         3x           1415         5w-25         3x           1415         5w-25         3x           1me:         Relinquished by:         Received by:	ATR ficid ficid sign(G MO Mota Mota Mota Mota Mota Mota Mota Mota
1335   5   54-121   5   5   5   5   5   5   5   5   5	1335   5   54-121   54-121   54-121   54-121   54-122   54-122   54-122   54-123   54-123   54-123   54-123   54-123   54-124   54-124   54-124   54-124   54-124   54-125	Container Preservative X HEAL No. Type and # Type (Sen Type and # Type and # Type (Sen Type and # Type and # Type and # Type (Sen Type and # Type and # Type and # Type and # Type (Sen Type and # Typ
1330   6H-122	1330   BM-122   SW-123   SW-124   SW-125   SW-125   SW-210   SW-22   1905   SW-22   1905   SW-22   1905   SW-22   1915   SW-22   1915   SW-22   SW-23   1915   SW-25   SW-25	10年   10
13.5   BM - 12.2   - 0.052   13.5   BM - 12.3   - 0.052   13.5   BM - 12.3   - 0.053   13.5   5W - 16   - 0.05   13.5   5W - 2.0   - 0.05   13.5   5W - 2.1   - 0.05   14.0   5W - 2.2   - 0.05   14.0   5W - 2.2   - 0.05   14.0   5W - 2.3   - 0.07   14.0   5W - 2.3   - 0.01   - 0.01   14.0	1335 BM-122 1335 BM-123 1345 5W-18 1350 5W-20 1350 5W-21 1400 5W-22 1405 5W-22 1415 5W-24 1415 5W-25 1416 5W-25 1416 5W-25	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
1335   BM 123   -003   -004   -005   -004   -005   -004   -005   -004   -005   -004   -005	1335   814-123   1346   544-123   1345   544-124   1350   544-20   1350   544-22   1405   544-22   1415   544-22   1415   544-22   1415   544-22   1415   544-22   1415   544-25   345   344-25   345   346-25   345   346-25   345   346-2	
1345   5W - 18   -004   -005   1350   5W - 20   -005   -	1340   5W - 18   1350   5W - 19   1350   5W - 20   1350   5W - 20   1400   5W - 22   1410   5W - 24   1415   5W - 24   1415   5W - 25   1415   5W - 25   1415   5W - 25   1415   1415   5W - 25   1415   14	
1345   54-19   -005   1350   54-20   -005   1350   54-20   -006   -007	1350 5V-19 1350 5V-20 1350 5V-20 1400 5V-22 1405 5V-23 1410 5V-23 1415 V 5V-25 Time: Relinquished by: Via:	
1350   5V-20	1350   5V-20   1955   5W-2    1960   5W-2    1960   5W-2    1960   5W-2    1960   5W-2    1960   1	
13.55   5.W-2.1   -00.04   -00.07     19.05     5.W-2.2     19.05     5.W-2.2     -0.06	19.05   5.w-2.1   19.05   5.w-2.2   19.05   5.w-2.3   19.15   5.w-2.5   4.15   19.15   5.w-2.5   4.15	Soot:
1905   5w-22	1905 5w-22 1905 5w-22 1910 5w-23 1915 5w-25 Time: Relinquished by: Nia:	900-
1410   5w-22   -008   1410   5w-23   -008   -009   1410   5w-23   -009   -009   -001	1405 5w-22 1405 5w-23 1416 5w-24 1415 5w-25	+00-
1410   514-23	1410 5W-24 1415 \ SW-25 Time: Relinquished by: Nia:	800-
1915   Sw.23   Sw.25   -011     1915   Sw.25   War   Sw.25   -011     1915   Mitchell Warm's Mathyl Wm   Man   M	1915 \ Sw.25 \	600
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170 (Clump) CM Cen 3/24/2 0730	Received by: Via: Date T	Via: Date Time Matthew.Laughlin@ghd.com;
	33	Amber_Griffin@eogresources.com: Along with Becky Haskell listed above



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

April 18, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates AS Fee OrderNo.: 2204061

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-1

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:30:00 PM

 Lab ID:
 2204061-001
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	2900	150	mg/Kg	50	4/7/2022 12:24:48 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	670	48	mg/Kg	5	4/6/2022 1:49:24 PM	66650
Motor Oil Range Organics (MRO)	350	240	mg/Kg	5	4/6/2022 1:49:24 PM	66650
Surr: DNOP	74.0	51.1-141	%Rec	5	4/6/2022 1:49:24 PM	66650
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	5.1	3.1	mg/Kg	1	4/2/2022 11:55:00 PM	A86939
Surr: BFB	208	37.7-212	%Rec	1	4/2/2022 11:55:00 PM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.016	mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Toluene	ND	0.031	mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Ethylbenzene	ND	0.031	mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Xylenes, Total	ND	0.062	mg/Kg	1	4/2/2022 11:55:00 PM	C86939
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	4/2/2022 11:55:00 PM	C86939

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

Qualifiers:

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

Page 1 of 15

Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-2

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:35:00 PM

 Lab ID:
 2204061-002
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	3300	150		mg/Kg	50	4/7/2022 12:37:08 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	1400	46		mg/Kg	5	4/6/2022 2:10:37 PM	66650
Motor Oil Range Organics (MRO)	520	230		mg/Kg	5	4/6/2022 2:10:37 PM	66650
Surr: DNOP	102	51.1-141		%Rec	5	4/6/2022 2:10:37 PM	66650
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	16	3.2		mg/Kg	1	4/3/2022 12:15:00 AM	A86939
Surr: BFB	214	37.7-212	S	%Rec	1	4/3/2022 12:15:00 AM	A86939
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.016		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Toluene	ND	0.032		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Ethylbenzene	0.038	0.032		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Xylenes, Total	ND	0.065		mg/Kg	1	4/3/2022 12:15:00 AM	C86939
Surr: 4-Bromofluorobenzene	135	70-130	S	%Rec	1	4/3/2022 12:15:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-3

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:40:00 PM

 Lab ID:
 2204061-003
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	3500	150	mg/Kg	50	4/7/2022 12:49:29 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	1200	49	mg/Kg	5	4/6/2022 2:31:54 PM	66650
Motor Oil Range Organics (MRO)	500	240	mg/Kg	5	4/6/2022 2:31:54 PM	66650
Surr: DNOP	52.6	51.1-141	%Rec	5	4/6/2022 2:31:54 PM	66650
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	5.5	3.5	mg/Kg	1	4/3/2022 12:35:00 AM	A86939
Surr: BFB	195	37.7-212	%Rec	1	4/3/2022 12:35:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.018	mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Toluene	ND	0.035	mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Ethylbenzene	ND	0.035	mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Xylenes, Total	ND	0.071	mg/Kg	1	4/3/2022 12:35:00 AM	C86939
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	4/3/2022 12:35:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-4

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:45:00 PM

 Lab ID:
 2204061-004
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1200	60	mg/Kg	20	4/4/2022 5:29:52 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	610	20	mg/Kg	2	4/6/2022 2:53:11 PM	66650
Motor Oil Range Organics (MRO)	300	98	mg/Kg	2	4/6/2022 2:53:11 PM	66650
Surr: DNOP	96.3	51.1-141	%Rec	2	4/6/2022 2:53:11 PM	66650
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	4/3/2022 12:54:00 AM	A86939
Surr: BFB	120	37.7-212	%Rec	1	4/3/2022 12:54:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.017	mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Toluene	ND	0.034	mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Ethylbenzene	ND	0.034	mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Xylenes, Total	ND	0.068	mg/Kg	1	4/3/2022 12:54:00 AM	C86939
Surr: 4-Bromofluorobenzene	81.8	70-130	%Rec	1	4/3/2022 12:54:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-5

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:50:00 PM

 Lab ID:
 2204061-005
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	60	mg/Kg	20	4/4/2022 5:42:16 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	160	9.5	mg/Kg	1	4/6/2022 3:24:56 PM	66650
Motor Oil Range Organics (MRO)	82	48	mg/Kg	1	4/6/2022 3:24:56 PM	66650
Surr: DNOP	91.5	51.1-141	%Rec	1	4/6/2022 3:24:56 PM	66650
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/3/2022 1:14:00 AM	A86939
Surr: BFB	100	37.7-212	%Rec	1	4/3/2022 1:14:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.022	mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Toluene	ND	0.043	mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Ethylbenzene	ND	0.043	mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Xylenes, Total	ND	0.087	mg/Kg	1	4/3/2022 1:14:00 AM	C86939
Surr: 4-Bromofluorobenzene	80.5	70-130	%Rec	1	4/3/2022 1:14:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-6

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 12:55:00 PM

 Lab ID:
 2204061-006
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	7200	300	mg/Kg	100	4/7/2022 1:01:49 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	440	9.6	mg/Kg	1	4/5/2022 10:18:28 AM	66612
Motor Oil Range Organics (MRO)	200	48	mg/Kg	1	4/5/2022 10:18:28 AM	66612
Surr: DNOP	110	51.1-141	%Rec	1	4/5/2022 10:18:28 AM	66612
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	3.8	3.0	mg/Kg	1	4/3/2022 1:34:00 AM	A86939
Surr: BFB	169	37.7-212	%Rec	1	4/3/2022 1:34:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.015	mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Toluene	ND	0.030	mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Ethylbenzene	ND	0.030	mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Xylenes, Total	ND	0.061	mg/Kg	1	4/3/2022 1:34:00 AM	C86939
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	4/3/2022 1:34:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-7

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:00:00 PM

 Lab ID:
 2204061-007
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	6600	300	mg/Kg	100	) 4/7/2022 1:14:10 PM	66597
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	300	9.3	mg/Kg	1	4/5/2022 11:58:26 AM	66612
Motor Oil Range Organics (MRO)	150	46	mg/Kg	1	4/5/2022 11:58:26 AM	66612
Surr: DNOP	88.8	51.1-141	%Rec	1	4/5/2022 11:58:26 AM	66612
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	4/3/2022 1:53:00 AM	A86939
Surr: BFB	152	37.7-212	%Rec	1	4/3/2022 1:53:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.019	mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Toluene	ND	0.037	mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Ethylbenzene	ND	0.037	mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Xylenes, Total	ND	0.074	mg/Kg	1	4/3/2022 1:53:00 AM	C86939
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	4/3/2022 1:53:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-8

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:05:00 PM

 Lab ID:
 2204061-008
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1800	61	mg/Kg	20	4/5/2022 2:02:40 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	:: SB
Diesel Range Organics (DRO)	220	9.5	mg/Kg	1	4/5/2022 10:42:30 AM	66612
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	4/5/2022 10:42:30 AM	66612
Surr: DNOP	115	51.1-141	%Rec	1	4/5/2022 10:42:30 AM	66612
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	4/3/2022 2:13:00 AM	A86939
Surr: BFB	108	37.7-212	%Rec	1	4/3/2022 2:13:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.016	mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Toluene	ND	0.031	mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Ethylbenzene	ND	0.031	mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Xylenes, Total	ND	0.063	mg/Kg	1	4/3/2022 2:13:00 AM	C86939
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	4/3/2022 2:13:00 AM	C86939

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

Qualifiers:

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

pipe pri Not in Range
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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-9

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:10:00 PM

 Lab ID:
 2204061-009
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1900	60	mg/Kg	20	4/5/2022 2:15:05 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	450	10	mg/Kg	1	4/5/2022 11:06:34 AM	66612
Motor Oil Range Organics (MRO)	220	50	mg/Kg	1	4/5/2022 11:06:34 AM	66612
Surr: DNOP	116	51.1-141	%Rec	1	4/5/2022 11:06:34 AM	66612
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	4/3/2022 2:33:00 AM	A86939
Surr: BFB	124	37.7-212	%Rec	1	4/3/2022 2:33:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.016	mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Toluene	ND	0.031	mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Ethylbenzene	ND	0.031	mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Xylenes, Total	ND	0.062	mg/Kg	1	4/3/2022 2:33:00 AM	C86939
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	4/3/2022 2:33:00 AM	C86939

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

Qualifiers:

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

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Date Reported: 4/18/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-10

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:15:00 PM

 Lab ID:
 2204061-010
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	1900	60	mg/Kg	20	4/5/2022 2:27:29 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: SB
Diesel Range Organics (DRO)	420	9.1	mg/Kg	1	4/5/2022 10:18:24 AM	66612
Motor Oil Range Organics (MRO)	190	46	mg/Kg	1	4/5/2022 10:18:24 AM	66612
Surr: DNOP	97.7	51.1-141	%Rec	1	4/5/2022 10:18:24 AM	66612
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	4/3/2022 2:53:00 AM	A86939
Surr: BFB	123	37.7-212	%Rec	1	4/3/2022 2:53:00 AM	A86939
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.016	mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Toluene	ND	0.032	mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Ethylbenzene	ND	0.032	mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Xylenes, Total	ND	0.063	mg/Kg	1	4/3/2022 2:53:00 AM	R86939
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	4/3/2022 2:53:00 AM	R86939

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204061** *18-Apr-22* 

Client: GHD Midland

Project: Yates AS Fee

Sample ID: MB-66597 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66597 RunNo: 86968

Prep Date: 4/4/2022 Analysis Date: 4/4/2022 SeqNo: 3073845 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66597 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66597 RunNo: 86968

Prep Date: 4/4/2022 Analysis Date: 4/4/2022 SeqNo: 3073846 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.5 90 110

Sample ID: MB-66637 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66637 RunNo: 86993

Prep Date: 4/5/2022 Analysis Date: 4/5/2022 SeqNo: 3075207 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66637 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66637 RunNo: 86993

Prep Date: 4/5/2022 Analysis Date: 4/5/2022 SeqNo: 3075208 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.9 90 110

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2204061

18-Apr-22

**Client: GHD** Midland **Project:** Yates AS Fee

Sample ID: <b>2204061-001AMS</b>	SampT	ype: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BHX-1	Batch	n ID: <b>666</b>	512	F	RunNo: 80	6990						
Prep Date: 4/4/2022	Analysis D	ate: 4/5	5/2022	SeqNo: <b>3074035</b> Units: r				ng/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	750	9.9	49.70	627.7	246	36.1	154			S		
Surr: DNOP	4.2		4.970		85.0	51.1	141					
Sample ID: 2204061-001AMSI	<b>S</b> ampT	ype: <b>MS</b>	D	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BHY-1	Batch	ID: 666	12	5	RunNo. 8	ROON						

									g	
Client ID: BHX-1 Batch ID: 66612				F	RunNo: 8	6990				
Prep Date: 4/4/2022	Analysis D	ate: <b>4/</b>	5/2022	S	SeqNo: 3	074036	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	780	9.9	49.70	627.7	316	36.1	154	4.51	33.9	S
Surr: DNOP	4.4		4.970		87.5	51.1	141	0	0	

Sample ID: MB-66612	SampT	ype: <b>ME</b>	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch	ID: <b>66</b> 6	612	F	RunNo: 80	6991				
Prep Date: 4/4/2022	Analysis D	ate: <b>4/</b>	5/2022	S	SeqNo: 30	074090	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	26		10.00		256	51.1	141			S

Sample ID: LCS-66612	S	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch	ID: <b>66</b>	612	F	RunNo: <b>86991</b>							
Prep Date: 4/4/2022 Analysis Date: 4/5/2022				8	SeqNo: 3	074094	Units: mg/k	/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	135					
Surr: DNOP	5.3		5.000		106	51.1	141					

Sample ID: <b>MB-66650</b>	mple ID: MB-66650 SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	1D: <b>66</b>	650	F	RunNo: 8	7033					
Prep Date: 4/5/2022 Analysis Date: 4/6/2022			SeqNo: <b>3075736</b>			Units: mg/Kg					
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									

2.000 tango 0. gamo (2.10)		. •				
Motor Oil Range Organics (MRO)	ND	50				
Surr: DNOP	8.6		10.00	86.1	51.1	141

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204061** 

18-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: LCS-66650 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66650 RunNo: 87033

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3075737 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 48
 10
 50.00
 0
 96.4
 68.9
 135

 Surr: DNOP
 4.2
 5.000
 84.5
 51.1
 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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204061** 

18-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: 2.5ug gro Ics	SampT	SampType: <b>LCS</b>			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	Batch ID: <b>A86939</b>			RunNo: 86939						
Prep Date:	Analysis D	Analysis Date: 4/2/2022			SeqNo: <b>3071760</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	72.3	137				
Surr: BFB	2200		1000		225	37.7	212			S	

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	n ID: A8	6939	R	RunNo: 8	6939				
Prep Date:	Analysis D	)ate: <b>4/</b>	2/2022	S	SeqNo: 3	071761	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204061** 

18-Apr-22

Client: GHD Midland
Project: Yates AS Fee

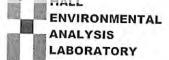
Sample ID: 100ng btex Ics	SampType: <b>LCS</b>			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: C86939			F	RunNo: 8					
Prep Date:	Analysis [	Date: <b>4/</b>	2/2022	S	SeqNo: 3	071804	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: <b>C86939</b> Analysis Date: <b>4/2/2022</b>			RunNo: <b>86939</b>						
Prep Date:				SeqNo: <b>3071805</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

#### Qualifiers:

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

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

## Sample Log-In Check List

Client Name: GHD Midland	Work Order Nu	mber: 2204061		RcptNo: 1		
Received By: Tracy Casarr	rubias 4/2/2022 10:00:0	0 AM				
Completed By: Tracy Casarr						
Reviewed By: ( 04 /02		o / un				
Chain of Custody						
<ol> <li>Is Chain of Custody complete</li> </ol>	9?	Yes 🗸	No 🗌	Not Present		
2. How was the sample delivered	d?	Courier				
<u>Log In</u>						
3. Was an attempt made to cool	the samples?	Yes 🔽	No 🗆	NA 🗌		
4. Were all samples received at a	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 🗌			
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗸	No 🗆			
8. Was preservative added to bot	tles?	Yes	No 🔽	NA 🗆		
9. Received at least 1 vial with he	adspace <1/4" for AQ VOA?	Yes	No 🗆	NA 🔽		
10. Were any sample containers re		Yes	No 🔽	WA &	-5	
11. Does paperwork match bottle la (Note discrepancies on chain o		Yes 🗹	# bo	of preserved ottles checked or pH:		
12. Are matrices correctly identified	Line and the second of the control o	Yes 🗸	No 🗌	Adjusted?	nless noted)	
13. Is it clear what analyses were re		Yes 🗸	No 🗆			
<ol> <li>Were all holding times able to be (If no. notify customer for author)</li> </ol>	pe met? prization.)	Yes 🗸	No 🗆	Checked by: TMC	YAIL	
Special Handling (if applica	able)					
15. Was client notified of all discre	pancies with this order?	Yes	No 🗌	NA 🗷		
Person Notified:	Date					
By Whom:	Via:	Marine America	none  Fax	In Person		
Regarding:				WY CICCII		
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> <u>Cooler No Temp °C Cooler 1 4.7 Good 2 3.3 Good Cooler 1 4.7 Good Cooler 1 4</u>		Seal Date S	Signed By			



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

April 12, 2022

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

FAX:

RE: Yates AS Fee OrderNo.: 2204069

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-1

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:30:00 PM

 Lab ID:
 2204069-001
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	840	60	mg/Kg	20	4/8/2022 5:30:39 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/6/2022 5:57:10 PM	66640
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/6/2022 5:57:10 PM	66640
Surr: DNOP	82.2	51.1-141	%Rec	1	4/6/2022 5:57:10 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2022 12:02:00 PM	66613
Surr: BFB	105	37.7-212	%Rec	1	4/6/2022 12:02:00 PM	66613
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.024	mg/Kg	1	4/6/2022 12:02:00 PM	66613
Toluene	ND	0.049	mg/Kg	1	4/6/2022 12:02:00 PM	66613
Ethylbenzene	ND	0.049	mg/Kg	1	4/6/2022 12:02:00 PM	66613
Xylenes, Total	ND	0.098	mg/Kg	1	4/6/2022 12:02:00 PM	66613
Surr: 4-Bromofluorobenzene	83.5	70-130	%Rec	1	4/6/2022 12:02:00 PM	66613

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
- 8 % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-2

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:35:00 PM

 Lab ID:
 2204069-002
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	870	60	mg/Kg	20	4/8/2022 6:07:54 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/6/2022 6:21:20 PM	66640
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/6/2022 6:21:20 PM	66640
Surr: DNOP	83.1	51.1-141	%Rec	1	4/6/2022 6:21:20 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2022 12:22:00 PM	66613
Surr: BFB	102	37.7-212	%Rec	1	4/6/2022 12:22:00 PM	66613
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/6/2022 12:22:00 PM	66613
Toluene	ND	0.049	mg/Kg	1	4/6/2022 12:22:00 PM	66613
Ethylbenzene	ND	0.049	mg/Kg	1	4/6/2022 12:22:00 PM	66613
Xylenes, Total	ND	0.097	mg/Kg	1	4/6/2022 12:22:00 PM	66613
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	4/6/2022 12:22:00 PM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-3

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:40:00 PM

 Lab ID:
 2204069-003
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	740	60	mg/Kg	20	4/8/2022 6:20:19 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/6/2022 6:45:44 PM	66640
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/6/2022 6:45:44 PM	66640
Surr: DNOP	82.0	51.1-141	%Rec	1	4/6/2022 6:45:44 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/6/2022 12:41:00 PM	66613
Surr: BFB	99.0	37.7-212	%Rec	1	4/6/2022 12:41:00 PM	66613
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.025	mg/Kg	1	4/6/2022 12:41:00 PM	66613
Toluene	ND	0.050	mg/Kg	1	4/6/2022 12:41:00 PM	66613
Ethylbenzene	ND	0.050	mg/Kg	1	4/6/2022 12:41:00 PM	66613
Xylenes, Total	ND	0.10	mg/Kg	1	4/6/2022 12:41:00 PM	66613
Surr: 4-Bromofluorobenzene	81.1	70-130	%Rec	1	4/6/2022 12:41:00 PM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-4

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:45:00 PM

 Lab ID:
 2204069-004
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	720	60	mg/Kg	20	4/8/2022 6:32:44 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analysi						ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/6/2022 7:10:07 PM	66640
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/6/2022 7:10:07 PM	66640
Surr: DNOP	84.0	51.1-141	%Rec	1	4/6/2022 7:10:07 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/6/2022 1:01:00 PM	66613
Surr: BFB	99.7	37.7-212	%Rec	1	4/6/2022 1:01:00 PM	66613
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.023	mg/Kg	1	4/6/2022 1:01:00 PM	66613
Toluene	ND	0.046	mg/Kg	1	4/6/2022 1:01:00 PM	66613
Ethylbenzene	ND	0.046	mg/Kg	1	4/6/2022 1:01:00 PM	66613
Xylenes, Total	ND	0.092	mg/Kg	1	4/6/2022 1:01:00 PM	66613
Surr: 4-Bromofluorobenzene	82.3	70-130	%Rec	1	4/6/2022 1:01:00 PM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-5

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:50:00 PM

 Lab ID:
 2204069-005
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	650	60	mg/Kg	20	4/8/2022 6:45:09 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/6/2022 7:34:27 PM	66640
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/6/2022 7:34:27 PM	66640
Surr: DNOP	89.8	51.1-141	%Rec	1	4/6/2022 7:34:27 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/6/2022 1:21:00 PM	66613
Surr: BFB	101	37.7-212	%Rec	1	4/6/2022 1:21:00 PM	66613
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/6/2022 1:21:00 PM	66613
Toluene	ND	0.048	mg/Kg	1	4/6/2022 1:21:00 PM	66613
Ethylbenzene	ND	0.048	mg/Kg	1	4/6/2022 1:21:00 PM	66613
Xylenes, Total	ND	0.097	mg/Kg	1	4/6/2022 1:21:00 PM	66613
Surr: 4-Bromofluorobenzene	82.5	70-130	%Rec	1	4/6/2022 1:21:00 PM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-6

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 1:55:00 PM

 Lab ID:
 2204069-006
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	720	60	mg/Kg	20	4/8/2022 6:57:33 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/6/2022 7:58:39 PM	66640
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/6/2022 7:58:39 PM	66640
Surr: DNOP	85.3	51.1-141	%Rec	1	4/6/2022 7:58:39 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/5/2022 4:16:00 PM	66615
Surr: BFB	95.1	37.7-212	%Rec	1	4/5/2022 4:16:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 4:16:00 PM	66615
Toluene	ND	0.048	mg/Kg	1	4/5/2022 4:16:00 PM	66615
Ethylbenzene	ND	0.048	mg/Kg	1	4/5/2022 4:16:00 PM	66615
Xylenes, Total	ND	0.096	mg/Kg	1	4/5/2022 4:16:00 PM	66615
Surr: 4-Bromofluorobenzene	78.1	70-130	%Rec	1	4/5/2022 4:16:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-7

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:00:00 PM

 Lab ID:
 2204069-007
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	710	60	mg/Kg	20	4/8/2022 7:09:57 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/6/2022 9:35:32 PM	66654
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/6/2022 9:35:32 PM	66654
Surr: DNOP	83.8	51.1-141	%Rec	1	4/6/2022 9:35:32 PM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2022 5:15:00 PM	66615
Surr: BFB	96.9	37.7-212	%Rec	1	4/5/2022 5:15:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 5:15:00 PM	66615
Toluene	ND	0.050	mg/Kg	1	4/5/2022 5:15:00 PM	66615
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2022 5:15:00 PM	66615
Xylenes, Total	ND	0.099	mg/Kg	1	4/5/2022 5:15:00 PM	66615
Surr: 4-Bromofluorobenzene	79.8	70-130	%Rec	1	4/5/2022 5:15:00 PM	66615

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
- 8 % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-8

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:05:00 PM

 Lab ID:
 2204069-008
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	820	60	mg/Kg	20	4/8/2022 7:47:13 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/6/2022 10:47:58 PM	66654
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/6/2022 10:47:58 PM	66654
Surr: DNOP	86.6	51.1-141	%Rec	1	4/6/2022 10:47:58 PM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/5/2022 6:14:00 PM	66615
Surr: BFB	97.3	37.7-212	%Rec	1	4/5/2022 6:14:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 6:14:00 PM	66615
Toluene	ND	0.048	mg/Kg	1	4/5/2022 6:14:00 PM	66615
Ethylbenzene	ND	0.048	mg/Kg	1	4/5/2022 6:14:00 PM	66615
Xylenes, Total	ND	0.096	mg/Kg	1	4/5/2022 6:14:00 PM	66615
Surr: 4-Bromofluorobenzene	80.8	70-130	%Rec	1	4/5/2022 6:14:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-9

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:10:00 PM

 Lab ID:
 2204069-009
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	780	60	mg/Kg	20	4/8/2022 8:49:17 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/6/2022 11:12:02 PM	66654
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/6/2022 11:12:02 PM	66654
Surr: DNOP	87.6	51.1-141	%Rec	1	4/6/2022 11:12:02 PM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 6:34:00 PM	66615
Surr: BFB	100	37.7-212	%Rec	1	4/5/2022 6:34:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 6:34:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 6:34:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 6:34:00 PM	66615
Xylenes, Total	ND	0.099	mg/Kg	1	4/5/2022 6:34:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	4/5/2022 6:34:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-10

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:15:00 PM

 Lab ID:
 2204069-010
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	730	60	mg/Kg	20	4/8/2022 9:01:42 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/6/2022 11:36:11 PM	66654
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/6/2022 11:36:11 PM	66654
Surr: DNOP	86.7	51.1-141	%Rec	1	4/6/2022 11:36:11 PM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 6:53:00 PM	66615
Surr: BFB	99.4	37.7-212	%Rec	1	4/5/2022 6:53:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 6:53:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 6:53:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 6:53:00 PM	66615
Xylenes, Total	ND	0.099	mg/Kg	1	4/5/2022 6:53:00 PM	66615
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	4/5/2022 6:53:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-11

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:20:00 PM

 Lab ID:
 2204069-011
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	940	60	mg/Kg	20	4/8/2022 9:14:07 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/7/2022 12:00:12 AM	66654
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2022 12:00:12 AM	66654
Surr: DNOP	89.6	51.1-141	%Rec	1	4/7/2022 12:00:12 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 8:12:00 PM	66615
Surr: BFB	99.3	37.7-212	%Rec	1	4/5/2022 8:12:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 8:12:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 8:12:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 8:12:00 PM	66615
Xylenes, Total	ND	0.098	mg/Kg	1	4/5/2022 8:12:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	4/5/2022 8:12:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-12

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:25:00 PM

 Lab ID:
 2204069-012
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	900	60	mg/Kg	20	4/8/2022 9:26:31 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	29	9.3	mg/Kg	1	4/7/2022 12:24:23 AM	66654
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/7/2022 12:24:23 AM	66654
Surr: DNOP	91.8	51.1-141	%Rec	1	4/7/2022 12:24:23 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2022 8:32:00 PM	66615
Surr: BFB	102	37.7-212	%Rec	1	4/5/2022 8:32:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 8:32:00 PM	66615
Toluene	ND	0.050	mg/Kg	1	4/5/2022 8:32:00 PM	66615
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2022 8:32:00 PM	66615
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2022 8:32:00 PM	66615
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	4/5/2022 8:32:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-13

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:30:00 PM

 Lab ID:
 2204069-013
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	940	59	mg/Kg	20	4/8/2022 9:38:56 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst:	ED
Diesel Range Organics (DRO)	25	10	mg/Kg	1	4/7/2022 12:48:21 AM	66654
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2022 12:48:21 AM	66654
Surr: DNOP	93.5	51.1-141	%Rec	1	4/7/2022 12:48:21 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 8:52:00 PM	66615
Surr: BFB	102	37.7-212	%Rec	1	4/5/2022 8:52:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 8:52:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 8:52:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 8:52:00 PM	66615
Xylenes, Total	ND	0.098	mg/Kg	1	4/5/2022 8:52:00 PM	66615
Surr: 4-Bromofluorobenzene	84.3	70-130	%Rec	1	4/5/2022 8:52:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-14

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:35:00 PM

 Lab ID:
 2204069-014
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	720	60	mg/Kg	20	4/8/2022 9:51:21 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/7/2022 1:12:30 AM	66654
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/7/2022 1:12:30 AM	66654
Surr: DNOP	97.6	51.1-141	%Rec	1	4/7/2022 1:12:30 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/5/2022 9:12:00 PM	66615
Surr: BFB	106	37.7-212	%Rec	1	4/5/2022 9:12:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.023	mg/Kg	1	4/5/2022 9:12:00 PM	66615
Toluene	ND	0.046	mg/Kg	1	4/5/2022 9:12:00 PM	66615
Ethylbenzene	ND	0.046	mg/Kg	1	4/5/2022 9:12:00 PM	66615
Xylenes, Total	ND	0.092	mg/Kg	1	4/5/2022 9:12:00 PM	66615
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	4/5/2022 9:12:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-15

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:40:00 PM

 Lab ID:
 2204069-015
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	620	60	mg/Kg	20	4/8/2022 10:03:46 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	610	9.9	mg/Kg	1	4/7/2022 1:36:29 AM	66654
Motor Oil Range Organics (MRO)	460	50	mg/Kg	1	4/7/2022 1:36:29 AM	66654
Surr: DNOP	89.8	51.1-141	%Rec	1	4/7/2022 1:36:29 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	4/5/2022 9:31:00 PM	66615
Surr: BFB	103	37.7-212	%Rec	5	4/5/2022 9:31:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.12	mg/Kg	5	4/5/2022 9:31:00 PM	66615
Toluene	ND	0.25	mg/Kg	5	4/5/2022 9:31:00 PM	66615
Ethylbenzene	ND	0.25	mg/Kg	5	4/5/2022 9:31:00 PM	66615
Xylenes, Total	ND	0.50	mg/Kg	5	4/5/2022 9:31:00 PM	66615
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	5	4/5/2022 9:31:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-16

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:45:00 PM

 Lab ID:
 2204069-016
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	700	60	mg/Kg	20	4/8/2022 10:16:11 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	ED
Diesel Range Organics (DRO)	340	9.3	mg/Kg	1	4/8/2022 1:24:11 AM	66654
Motor Oil Range Organics (MRO)	320	46	mg/Kg	1	4/8/2022 1:24:11 AM	66654
Surr: DNOP	103	51.1-141	%Rec	1	4/8/2022 1:24:11 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 9:51:00 PM	66615
Surr: BFB	98.4	37.7-212	%Rec	1	4/5/2022 9:51:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 9:51:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 9:51:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 9:51:00 PM	66615
Xylenes, Total	ND	0.098	mg/Kg	1	4/5/2022 9:51:00 PM	66615
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	4/5/2022 9:51:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-17

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:50:00 PM

 Lab ID:
 2204069-017
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	840	60	mg/Kg	20	4/8/2022 10:53:24 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	ED
Diesel Range Organics (DRO)	270	10	mg/Kg	1	4/8/2022 2:12:20 AM	66654
Motor Oil Range Organics (MRO)	270	50	mg/Kg	1	4/8/2022 2:12:20 AM	66654
Surr: DNOP	104	51.1-141	%Rec	1	4/8/2022 2:12:20 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/5/2022 10:11:00 PM	66615
Surr: BFB	99.2	37.7-212	%Rec	1	4/5/2022 10:11:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 10:11:00 PM	66615
Toluene	ND	0.048	mg/Kg	1	4/5/2022 10:11:00 PM	66615
Ethylbenzene	ND	0.048	mg/Kg	1	4/5/2022 10:11:00 PM	66615
Xylenes, Total	ND	0.096	mg/Kg	1	4/5/2022 10:11:00 PM	66615
Surr: 4-Bromofluorobenzene	81.8	70-130	%Rec	1	4/5/2022 10:11:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-18

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 2:55:00 PM

 Lab ID:
 2204069-018
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	800	60	mg/Kg	20	4/8/2022 11:05:49 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	ED
Diesel Range Organics (DRO)	89	9.7	mg/Kg	1	4/8/2022 3:00:27 AM	66654
Motor Oil Range Organics (MRO)	120	48	mg/Kg	1	4/8/2022 3:00:27 AM	66654
Surr: DNOP	98.3	51.1-141	%Rec	1	4/8/2022 3:00:27 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2022 10:31:00 PM	66615
Surr: BFB	102	37.7-212	%Rec	1	4/5/2022 10:31:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	4/5/2022 10:31:00 PM	66615
Toluene	ND	0.049	mg/Kg	1	4/5/2022 10:31:00 PM	66615
Ethylbenzene	ND	0.049	mg/Kg	1	4/5/2022 10:31:00 PM	66615
Xylenes, Total	ND	0.098	mg/Kg	1	4/5/2022 10:31:00 PM	66615
Surr: 4-Bromofluorobenzene	82.2	70-130	%Rec	1	4/5/2022 10:31:00 PM	66615

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-10

 Project:
 Yates AS Fee
 Collection Date: 3/30/2022 11:05:00 AM

 Lab ID:
 2204069-019
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	64	60	mg/Kg	20	4/8/2022 11:18:14 PM	66732
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	ED
Diesel Range Organics (DRO)	150	9.8	mg/Kg	1	4/8/2022 3:48:29 AM	66654
Motor Oil Range Organics (MRO)	350	49	mg/Kg	1	4/8/2022 3:48:29 AM	66654
Surr: DNOP	79.8	51.1-141	%Rec	1	4/8/2022 3:48:29 AM	66654
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/5/2022 10:50:00 PM	66615
Surr: BFB	104	37.7-212	%Rec	1	4/5/2022 10:50:00 PM	66615
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.024	mg/Kg	1	4/5/2022 10:50:00 PM	66615
Toluene	ND	0.048	mg/Kg	1	4/5/2022 10:50:00 PM	66615
Ethylbenzene	ND	0.048	mg/Kg	1	4/5/2022 10:50:00 PM	66615
Xylenes, Total	ND	0.097	mg/Kg	1	4/5/2022 10:50:00 PM	66615
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	4/5/2022 10:50:00 PM	66615

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2204069

12-Apr-22

**Client:** GHD Midland **Project:** Yates AS Fee

Sample ID: MB-66731 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66731 RunNo: 87136

Prep Date: 4/8/2022 Analysis Date: 4/8/2022 SeqNo: 3080929 Units: mg/Kg

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

ND 1.5 Chloride

Sample ID: LCS-66731 TestCode: EPA Method 300.0: Anions SampType: Ics

Client ID: LCSS Batch ID: 66731 RunNo: 87136

Prep Date: Analysis Date: 4/8/2022 SeqNo: 3080930 4/8/2022 Units: mg/Kg

15.00

%REC %RPD **RPDLimit** Result **PQL** SPK value SPK Ref Val HighLimit Qual Analyte I owl imit 0

90.2

90

Sample ID: MB-66732 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66732 RunNo: 87136

1.5

14

Analysis Date: 4/8/2022 Prep Date: 4/8/2022 SeqNo: 3080959 Units: mg/Kg

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

ND Chloride 1.5

Sample ID: LCS-66732 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS RunNo: 87136 Batch ID: 66732

Prep Date: 4/8/2022 Analysis Date: 4/8/2022 SeqNo: 3080960 Units: mg/Kg

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

1.5 Chloride 15.00 90.1 110

#### Qualifiers:

Chloride

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204069** *12-Apr-22* 

Client: GHD Midland Project: Yates AS Fee

Sample ID: 2204069-007AMSE	SampT	ype: MS	D	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SWX-7	Batch	ID: <b>666</b>	65 <b>4</b>	F	RunNo: 87	7063				
Prep Date: 4/5/2022	Analysis D	ate: 4/0	6/2022	S	SeqNo: 30	077473	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.73	0	92.1	36.1	154	4.46	33.9	
Surr: DNOP	3.9		4.673		83.2	51.1	141	0	0	
Sample ID: 2204069-007AMS	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics									

Campic ID: 2204003-007 AING	Campi	ypo. wie	•	100	loode. Li	Ailictiou	00 13 N/D. DIC	oci italige	Organics	
Client ID: SWX-7	Batch	ID: <b>66</b>	654	F	RunNo: 8	7063				
Prep Date: 4/5/2022	Analysis D	ate: <b>4/</b>	6/2022	S	SeqNo: 30	077474	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.7	48.36	0	93.1	36.1	154			
Surr: DNOP	4.0		4.836		81.7	51.1	141			

Sample ID: LCS-66640	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>El</b>	PA Method	8015M/D: Die	5M/D: Diesel Range Organics				
Client ID: LCSS	Batch	1D: <b>66</b> 0	640	F	RunNo: 8	7063						
Prep Date: 4/5/2022	Analysis D	ate: 4/	6/2022	S	SeqNo: 30	077500	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	135					
Surr: DNOP	4.7		5.000		94.6	51.1	141					

Sample ID: LCS-66654	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	1D: <b>66</b>	654	F	RunNo: 8	7063				
Prep Date: 4/5/2022	Analysis D	ate: <b>4/</b>	6/2022	8	SeqNo: 3	077501	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	68.9	135			
Surr: DNOP	3.8		5.000		76.8	51.1	141			

Sample ID: <b>MB-66640</b>	SampT	уре: <b>МВ</b>	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						cs		
Client ID: PBS	Batch	ID: <b>666</b>	640	F	RunNo: 87	7063						
Prep Date: 4/5/2022	Analysis D	ate: <b>4/</b> 0	6/2022	8	SeqNo: 30	077502	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	9.5		10.00		95.2	51.1	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

2204069 12-Apr-22

WO#:

Client: GHD Midland
Project: Yates AS Fee

Project: Yates A	s ree	
Sample ID: MB-66654	SampType: <b>MBLK</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 66654	RunNo: 87063
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: <b>3077503</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value SPk	K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	70.4
Surr: DNOP	7.8 10.00	78.4 51.1 141
Sample ID: LCS-66673	SampType: <b>LCS</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 66673	RunNo: <b>87063</b>
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: <b>3077955</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value SPk	K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.00 5.000	101 51.1 141
Sample ID: <b>MB-66673</b>	SampType: <b>MBLK</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: <b>66673</b>	RunNo: <b>87063</b>
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: <b>3077956</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value SPK	K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.4 10.00	94.0 51.1 141
Sample ID: LCS-66706	SampType: <b>LCS</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: <b>66706</b>	RunNo: <b>87134</b>
Prep Date: 4/7/2022	Analysis Date: 4/8/2022	SeqNo: <b>3080858</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value SPK	K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.4 5.000	88.4 51.1 141
Sample ID: <b>MB-66706</b>	SampType: <b>MBLK</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: <b>66706</b>	RunNo: <b>87134</b>
Prep Date: 4/7/2022	Analysis Date: 4/8/2022	SeqNo: <b>3080859</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value SPK	K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.9 10.00	89.1 51.1 141

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204069** 

12-Apr-22

Client: GHD Midland Project: Yates AS Fee

Sample ID: Ics-66615	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batcl	h ID: <b>66</b> 0	615	F	RunNo: 8	7013							
Prep Date: 4/4/2022	Analysis D	Analysis Date: 4/5/2022			SeqNo: <b>3074546</b> Un				Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137						
Surr: BFB	2100		1000		205	37.7	212						
Sample ID: mb-66615	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: <b>E</b> l	PA Method	8015D: Gaso	line Rang	e				
Client ID: PBS	Batcl	h ID: <b>66</b> 0	615	F	RunNo: 8	7013							
Prep Date: 4/4/2022	Analysis D	Date: <b>4/</b>	5/2022	SeqNo: <b>3074547</b> Units			Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	ND	5.0											
Surr: BFB	930		1000		92.8	37.7	212						
Sample ID: <b>2204069-006AMS</b>	SampType: <b>MS</b>				TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SWY-6	Ratel	h ID: 66	£15	PunNo: 97013									

Client ID: SWX-6	ID: <b>SWX-6</b> Batch ID: <b>66615</b>				RunNo: 87					
Prep Date: 4/4/2022	Analysis D	Analysis Date: 4/5/2022			SeqNo: 3074564 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.74	0	125	70	130			
Surr: BFB	2200		949.7		237	37.7	212			S
Sample ID: 2204069-006AMS	SD SampT	ype: MS	: MSD TestCode: EPA Method 8015D: Gasoline Range							

Sample ID: 2204069-006AMSD	SampT	ype: <b>MS</b>	SD	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SWX-6	Batch	ID: <b>66</b>	615	F	RunNo: 87	7013					
Prep Date: 4/4/2022	Analysis D	ate: <b>4/</b>	5/2022	S	SeqNo: 30	074565	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	30	4.7	23.74	0	126	70	130	0.796	20		
Surr: BFB	2200		949.7		231	37.7	212	0	0	S	

Sample ID: Ics-66613	S	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS					RunNo: 8	7013				
Prep Date: <b>4/4/2022</b>	Analysis Date: 4/6/2022			SeqNo: <b>3074581</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2300		1000		228	37.7	212			S

Sample ID: <b>mb-66613</b>	SampType: <b>MBLK</b>	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 66613	RunNo: 87013
Prep Date: 4/4/2022	Analysis Date: 4/6/2022	SeqNo: <b>3074582</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

#### Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204069** 

12-Apr-22

Client: GHD Midland Project: Yates AS Fee

Sample ID: mb-66613 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66613 RunNo: 87013

Prep Date: 4/4/2022 Analysis Date: 4/6/2022 SeqNo: 3074582 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204069** 

12-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: Ics-66615	Samp1	ype: <b>LC</b>	s	Tes	tCode: <b>El</b>	iles				
Client ID: LCSS	Batcl	h ID: <b>66</b> 6	615	F	RunNo: 8	7013				
Prep Date: 4/4/2022	Analysis D	Date: <b>4/</b>	5/2022	SeqNo: <b>3074595</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.9	80	120			
Toluene	0.82	0.050	1.000	0	81.7	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.5	80	120			
Xylenes, Total	2.4	0.10	3.000	0	80.6	80	120			
Surr: 4-Bromofluorobenzene	0.78				78.4	70	130			

Sample ID: mb-66615	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: <b>666</b>	615	F	RunNo: 8	7013				
Prep Date: 4/4/2022	Analysis D	ate: <b>4/</b>	5/2022	S	SeqNo: 30	074596	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.76		1.000		75.9	70	130			

Sample ID: <b>2204069-007AMS</b>	SampT	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: SWX-7	Batch	n ID: <b>666</b>	315	F						
Prep Date: <b>4/4/2022</b>	Analysis D	sis Date: 4/5/2022 SeqNo: 3074614 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9775	0	89.8	68.8	120			
Toluene	0.90	0.049	0.9775	0	92.0	73.6	124			
Ethylbenzene	0.91	0.049	0.9775	0	93.2	72.7	129			
Xylenes, Total	2.7	0.098	2.933	0	92.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.80		0.9775		81.6	70	130			

Sample ID: <b>2204069-007AMS</b>	<b>)</b> Samp1	Гуре: <b>М</b> S	SD.	TestCode: EPA Method 8021B: Volatiles						
Client ID: SWX-7	Batcl	h ID: <b>666</b>	615	F	RunNo: 8					
Prep Date: <b>4/4/2022</b>	Analysis D	Date: 4/	5/2022	S	074615	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9690	0	86.2	68.8	120	4.89	20	
Toluene	0.86	0.048	0.9690	0	88.7	73.6	124	4.47	20	
Ethylbenzene	0.87	0.048	0.9690	0	90.0	72.7	129	4.40	20	
Xylenes, Total	2.6	0.097	2.907	0	89.5	75.7	126	4.18	20	
Surr: 4-Bromofluorobenzene	0.79		0.9690		81.6	70	130	0	0	

#### Qualifiers:

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- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204069** *12-Apr-22* 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: Ics-66613	Samp1	Гуре: <b>LC</b>	S	Tes	tCode: <b>EF</b>	iles				
Client ID: LCSS	Batcl	h ID: <b>666</b>	613	F	RunNo: 87	7013				
Prep Date: 4/4/2022	Analysis D	Date: <b>4/</b> 0	6/2022	S	SeqNo: 30	074630	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8				92.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: mb-66613	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	Batch ID: 66613			RunNo: 8	7013				
Prep Date: 4/4/2022 Analysis Date: 4/6/2022				SeqNo: <b>3074631</b>			Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	70	130			

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List

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

Client Name:	GHD Midland	Work Order Num	ber: 2204069		RcptNo: 1	
Received By:	Tracy Casarrubias	4/2/2022 10:00:00	АМ			
Completed By:	Tracy Casarrubias	4/2/2022 1:46:58 P	M			
Reviewed By: 5	Ta 4/4/22					
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	npt made to cool the sample	s?	Yes 🔽	No 🗆	NA 🗆	
4. Were all samp	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sam	ple volume for indicated tes	t(s)?	Yes 🗸	No.		
	except VOA and ONG) prop		Yes 🗸	No 🗆		
	tive added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at le	ast 1 vial with headspace <1	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any san	nple containers received bro	ken?	Yes	No 🗸		
11 0	· San San Control			b	of preserved ottles checked	
	ork match bottle labels?		Yes 🗸	No 🗌 fo	or pH:	loop materil)
	correctly identified on Chain of	of Custody?	Yes 🗸	No 🗌	Adjusted?	less noted)
	analyses were requested?		Yes 🗸	No 🗆	/ 1/0	
4. Were all holdin (If no, notify cu	ng times able to be met? ustomer for authorization.)		Yes 🗸	No 🗆	Checked by: KKG	4/4/
pecial Handli	ing (if applicable)					
	tified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗸	
Person I	Notified:	Date:				
By Who	m:	Via:	The Asia State of	hone  Fax	In Person	
Regardin	ng:	7,141	_ oman _ 1	none _ rax _	in Ferson	
Client In	structions:					
6. Additional ren	narks:					
7. Cooler Inform	mation					
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	4.7 Good Y	es	Geal Date	Signed By		
2	3.3 Good Y	es				

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Standard   TRush   S Day		Shain	1-of-C	Chain-of-Custody Record	Turn-Around	Time:				2		i			
Project Name:   Project Manager:   Package:   Project Manager:   Package:   Devel 4 (Full Validation)   Tom Larson   No	Client	문			☐ Standard	4	V			<b>E e</b>			N S	A DOD BA	, >
Color   Colo					Project Nam								ה ה	ADORA	_
#: (432) 686-086   1 22 840 ( #: (43	Mailing	g Addres	SS:		1 Yates	AS	200		4901 H	awking w	WW.TB	Albud	nemen	Fal.com	
##: (432) 686-0086	2135 8	3. Loop 2	250 W. Mic	dland, TX 79703	Project #:				Tel. 50	5-345	-3975		505	-345-4107	
Project Manager.   Project Manager.   Project Manager.   Package.   Packag	Phone	#	(432) 68	36-0086	1122 3	3401					⋖	nalysi	s Red	uest	
Package   Pac	email	or Fax#:	Becky. H	laskell@ghd.com	Project Mana	ger:		_	(0			<sup>р</sup> С	L		
Itation:   Az Compliance   Sampler:   Heath Boyd   Passe   No   No   No   No   No   No   No   N	QAVQC	Package	as.		Becky Haske	_				3/1	CINI	S '*(			
Sampler: Heath Boyd   Architecture   Az Compliance   Sampler: Heath Boyd   Architecture   Arch	□ Sta	ndard		□ Level 4 (Full Validation)	Tom Larson					130	100	DЫ			
Time   Matrix   Sample   Name   Type and # Type and	Accrec	ditation:		ompliance	Sampler:	Heath Boyd	2				170	NO <sup>5</sup>	(		
Time Matrix Sample Name Type and # Type AG2 4.3 % Container Preservative HEALNO.  1335 \$UX-7   4px X   4V 74   CQ1   K 1355    1340 \$SUX-2   4px X   4V 74   CQ1   K 1355    1350 \$SUX-7   4px X   4V 74   CQ1   K 1471   10   CQ2   CQ2   K 1471   10   CQ2   CQ3   CQ2   CQ2   CQ2   CQ3   CQ3		) (Type)	200		# of Coolers:	7 165	ON I				_	'EC	<b>∀</b> O/	W	
Time Matrix Sample Name Type and # Type   Type and # Type   Type and # Type   Type and # Type					Cooler Temp	(including CF): 4.7	ってトール							300	
1335   SUX-1   Apz. 上 1   Apz. 上 2   Apz. 上 3   Apz. 上 3   Apz. 上 4   Apz. 上 5   Apz. L 5   Apz	Date	Time		Sample Name	Container Type and #	2.5 Preservative Type	10 23 HEAL N	NOW YOUR						- abiroldC	
335   SUX-2   002   X   X   X   X   X   X   X   X   X	3/20/2	1330	5	5WK-1	402 / 1	NR						_		) X	
340   SUX-3   CO3   Y   SUX-4   SUX-4   SUX-4   CO3   Y   SUX-5   SUX-5   SUX-5   CO4   Y   CO4   Y   CO4   Y   CO4   X		1335	J	5WX-2		-	700	-	. )			-		×	
1345 SW×-4 1350 SUX-5 11355 SW×-6 1400 SWx-7 1405 SWx-7 1405 SWx-7 1415 SWx-10 1415 SWx-10 1415 SWx-11 1425 ア SWx-11 1426 SWx-11 1426 SWx-11 1426 SWx-11 1426 ア C009 ア 1410 SWx-11 1426 ア C010 ア 1410 Swx-11 141		1340		5WK-3			200		w					又	
1350   SLDX-S   SLDX-S   SLDX-S   SLDX-B   SLDX-B   SLDX-B   SLDX-B   SLDX-B   SLDX-B   SLDX-B   SLDX-10   SLDX-10   SLDX-10   SLDX-10   SLDX-10   SLDX-10   SLDX-11   SLDX-		1345		5wx-4			7:00	× ×	;				L	义	
1355   SW x - b		1350		S-X05			790					-		×	
1400   SUX-7   COG		1355		SWK-6			900	×	10					R	
1415 SWX-7 COS		1400		Z-X-7			400							X	
1415   SWX - 10   0.10   ×   1420   SWX - 10   0.11   ×   ×   ×   0.11   ×   ×   ×   ×   ×   ×   ×   ×   ×		1405		SWX-8			200	-						×	
146   SWX - 10   010   ×   1420   SWX - 11   011   ×   ×   011   ×   ×   ×   ×   ×   ×   ×   ×   ×		1410		5-xms			900	-						×	
1426   SWX-11		1415		5Wx - 10			010	1000						. <u>.</u> . <u>.</u> . <u>.</u> .	
425		1450	/	) - xms			011	-				H		×	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 12, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Yates AS Fee OrderNo.: 2204068

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-19

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 11:40:00 AM

 Lab ID:
 2204068-001
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: LRN
Chloride	900	60	mg/Kg	20	4/8/2022 4:16:13 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: ED
Diesel Range Organics (DRO)	570	9.8	mg/Kg	1	4/7/2022 5:36:24 AM	66640
Motor Oil Range Organics (MRO)	430	49	mg/Kg	1	4/7/2022 5:36:24 AM	66640
Surr: DNOP	105	51.1-141	%Rec	1	4/7/2022 5:36:24 AM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	4/6/2022 1:53:11 AM	66613
Surr: BFB	114	37.7-212	%Rec	5	4/6/2022 1:53:11 AM	66613
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.12	mg/Kg	5	4/6/2022 1:53:11 AM	66613
Toluene	ND	0.25	mg/Kg	5	4/6/2022 1:53:11 AM	66613
Ethylbenzene	ND	0.25	mg/Kg	5	4/6/2022 1:53:11 AM	66613
Xylenes, Total	ND	0.50	mg/Kg	5	4/6/2022 1:53:11 AM	66613
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	5	4/6/2022 1:53:11 AM	66613

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

Qualifiers:

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

Page 1 of 10

Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-20

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 11:45:00 AM

 Lab ID:
 2204068-002
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	550	61	mg/Kg	20	4/8/2022 4:28:38 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	210	9.3	mg/Kg	1	4/7/2022 10:34:58 PM	66640
Motor Oil Range Organics (MRO)	380	46	mg/Kg	1	4/7/2022 10:34:58 PM	66640
Surr: DNOP	111	51.1-141	%Rec	1	4/7/2022 10:34:58 PM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/6/2022 2:40:30 AM	66613
Surr: BFB	98.7	37.7-212	%Rec	1	4/6/2022 2:40:30 AM	66613
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/6/2022 2:40:30 AM	66613
Toluene	ND	0.048	mg/Kg	1	4/6/2022 2:40:30 AM	66613
Ethylbenzene	ND	0.048	mg/Kg	1	4/6/2022 2:40:30 AM	66613
Xylenes, Total	ND	0.095	mg/Kg	1	4/6/2022 2:40:30 AM	66613
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	4/6/2022 2:40:30 AM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-21

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 11:50:00 AM

 Lab ID:
 2204068-003
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1000	60	mg/Kg	20	4/8/2022 4:41:03 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	83	9.7	mg/Kg	1	4/7/2022 6:48:08 AM	66640
Motor Oil Range Organics (MRO)	160	48	mg/Kg	1	4/7/2022 6:48:08 AM	66640
Surr: DNOP	101	51.1-141	%Rec	1	4/7/2022 6:48:08 AM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2022 3:04:12 AM	66613
Surr: BFB	96.8	37.7-212	%Rec	1	4/6/2022 3:04:12 AM	66613
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/6/2022 3:04:12 AM	66613
Toluene	ND	0.049	mg/Kg	1	4/6/2022 3:04:12 AM	66613
Ethylbenzene	ND	0.049	mg/Kg	1	4/6/2022 3:04:12 AM	66613
Xylenes, Total	ND	0.098	mg/Kg	1	4/6/2022 3:04:12 AM	66613
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	4/6/2022 3:04:12 AM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-22

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 11:55:00 AM

 Lab ID:
 2204068-004
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>LRN</b>
Chloride	1600	60	mg/Kg	20	4/8/2022 4:53:27 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: <b>ED</b>
Diesel Range Organics (DRO)	51	10	mg/Kg	1	4/7/2022 7:59:46 AM	66640
Motor Oil Range Organics (MRO)	82	50	mg/Kg	1	4/7/2022 7:59:46 AM	66640
Surr: DNOP	102	51.1-141	%Rec	1	4/7/2022 7:59:46 AM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/6/2022 3:27:54 AM	66613
Surr: BFB	96.7	37.7-212	%Rec	1	4/6/2022 3:27:54 AM	66613
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	4/6/2022 3:27:54 AM	66613
Toluene	ND	0.050	mg/Kg	1	4/6/2022 3:27:54 AM	66613
Ethylbenzene	ND	0.050	mg/Kg	1	4/6/2022 3:27:54 AM	66613
Xylenes, Total	ND	0.099	mg/Kg	1	4/6/2022 3:27:54 AM	66613
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	4/6/2022 3:27:54 AM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-23

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 12:00:00 PM

 Lab ID:
 2204068-005
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	1200	60	mg/Kg	20	4/8/2022 5:05:51 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: ED
Diesel Range Organics (DRO)	210	9.1	mg/Kg	1	4/7/2022 8:49:11 AM	66640
Motor Oil Range Organics (MRO)	290	46	mg/Kg	1	4/7/2022 8:49:11 AM	66640
Surr: DNOP	97.8	51.1-141	%Rec	1	4/7/2022 8:49:11 AM	66640
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/6/2022 3:51:35 AM	66613
Surr: BFB	96.2	37.7-212	%Rec	1	4/6/2022 3:51:35 AM	66613
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/6/2022 3:51:35 AM	66613
Toluene	ND	0.050	mg/Kg	1	4/6/2022 3:51:35 AM	66613
Ethylbenzene	ND	0.050	mg/Kg	1	4/6/2022 3:51:35 AM	66613
Xylenes, Total	ND	0.099	mg/Kg	1	4/6/2022 3:51:35 AM	66613
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	4/6/2022 3:51:35 AM	66613

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

Qualifiers:

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

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Date Reported: 4/12/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-24

 Project:
 Yates AS Fee
 Collection Date: 3/31/2022 12:05:00 PM

 Lab ID:
 2204068-006
 Matrix: SOIL
 Received Date: 4/2/2022 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1500	60		mg/Kg	20	4/8/2022 5:18:15 PM	66731
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: ED
Diesel Range Organics (DRO)	2400	92		mg/Kg	10	4/8/2022 3:19:38 PM	66640
Motor Oil Range Organics (MRO)	1200	460		mg/Kg	10	4/8/2022 3:19:38 PM	66640
Surr: DNOP	0	51.1-141	S	%Rec	10	4/8/2022 3:19:38 PM	66640
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	91	25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Surr: BFB	281	37.7-212	S	%Rec	5	4/6/2022 10:42:00 AM	66613
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Toluene	ND	0.25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Ethylbenzene	1.6	0.25		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Xylenes, Total	1.6	0.50		mg/Kg	5	4/6/2022 10:42:00 AM	66613
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	5	4/6/2022 10:42:00 AM	66613

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

Qualifiers:

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

Page 6 of 10

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204068** 

12-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-66731 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66731 RunNo: 87136

Prep Date: 4/8/2022 Analysis Date: 4/8/2022 SeqNo: 3080929 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66731 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66731 RunNo: 87136

Prep Date: 4/8/2022 Analysis Date: 4/8/2022 SeqNo: 3080930 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.2 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204068** 12-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: LCS-66640 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 66640 RunNo: 87063 Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077500 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 0 48 50.00 96.0 68.9 135 Surr: DNOP 4.7 5.000 94.6 51.1 141

Sample ID: MB-66640 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 66640 RunNo: 87063 Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077502 Units: mg/Kg 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 9.5 10.00 95.2 51.1 141

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 10

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204068** *12-Apr-22* 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: Ics-66613 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66613 RunNo: 87013

Prep Date: 4/4/2022 Analysis Date: 4/6/2022 SeqNo: 3074581 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Gasoline Range Organics (GRO) 0 27 5.0 25.00 108 72.3 137 Surr: BFB 2300 1000 228 37.7 212 S

Sample ID: mb-66613 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66613 RunNo: 87013

Prep Date: 4/4/2022 Analysis Date: 4/6/2022 SeqNo: 3074582 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

#### Qualifiers:

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

Page 9 of 10

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2204068** 

12-Apr-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: Ics-66613	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: <b>66</b> 0	613	F	RunNo: 8	7013				
Prep Date: 4/4/2022	Analysis D	oate: <b>4/</b>	6/2022	S	SeqNo: 3	074630	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: mb-66613	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>66</b> 0	613	F	RunNo: 8	7013				
Prep Date: 4/4/2022	Analysis D	ate: <b>4/</b>	6/2022	S	SeqNo: 3	074631	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	70	130			

#### Qualifiers:

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

Page 10 of 10

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: GHD Midland	Work Order Nun	nber: 2204068		RcptNo:	1
Received By: Tracy Casarrubias	4/2/2022 10:00:00	AM			
Completed By: Tracy Casarrubias	4/2/2022 1:40:57 F	PM			
Reviewed By: Se 4/4/21					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	NA 🗌	
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		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 broker	1?	Yes	No 🗸		,
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗆	# of preserved bottles checked for pH:	
2. Are matrices correctly identified on Chain of C	sustody?	Yes 🗸	No 🗆	Adjusted?	Zunless noted)
3. Is it clear what analyses were requested?		Yes 🗸	No 🗆		no/ /
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	Checked by:	M 4/4/
Special Handling (if applicable)					
15. Was client notified of all discrepancies with th	is order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:		none  Fax	☐ In Person	
Regarding:			ione 🗌 i ax	III I elsoli	
Client Instructions:					
16. Additional remarks:					
7. Cooler Information Cooler No Temp °C Condition Sea	Il Intact Seal No	Seal Date	Signed By		
1 4.7 Good Yes		- 30, 20,0	oliginou by		
2 3.3 Good Yes					

Address:				50001 (50000 :0 :::::::::::::::::::::::::::::				N.		=	100	L	T. O. W.		-	ce
Froject Name:   Froject Name:   Froject Name:   WATES HS FLEE	Client: G	요			Standar		h Soan			_ ≪		2 2	7	A DODE	VTAL	
1. Loop 250 W. Midland, TX 79703					Project Nam			1		ζ		ה ב	2	ADOKA	2	
## (432) 686-0066  ## (432) 686-0066  ## (432) 686-0066  ## (432) 686-0066  ## (432) 686-0066  Project Manager:  Becky Haskell@and com itation:	Mailing Ac	Idress:			YATE	5 AS	FEE		4901	Hawk	WWW.h	allenvir	onme	ital.com		JCD.
## (432) 686-0086	2135 S. Lo	30p 25(	W. Mid	dland, TX 79703	Project #:	,			- I	05-34	5-3976		duely v	24E 4407		3/1
Project Manager: Package:  Date: Becky Haskell and Company Project Manager:  Date: Date: Becky Haskell Becky Haskell  Date: Date: A very Compliance  On Ice: X ves D No  On Ice: X ves D N	Phone #:		(432) 68	36-0086	1121	1948			10		100	nal	is Re	-545-4107		//20
Package:   Becky Haskel    Becky Haskel    Becky Haskel    Content of Coolers:   X Yes	email or F.		Becky. F	laskell@ghd.com	Project Man	ager:		-	((		-	70			F	
Italion:   Az Compliance   Sampler:   Heath Boyd   Ac	QA/QC Pac □ Standa	kage: rd		☐ Level 4 (Full Validation)	Becky Hask	) <del>=</del>					SWIS	OS ' <sup>†</sup> Oc				4:34:03
Time   Matrix   Sample   Name   Type and # Type   Type   Type   Type and # Type   Ty	Accreditat		Az Co	ompliance	Sampler: On Ice:	Heath Boyd	ON E				0728 1	NO <sup>5</sup> ' I	()			1 1/1
Matrix Sample Name Type and # Type $\frac{3.5 - 6.233}{3.5}$ Container Type and # Type $\frac{3.5 - 6.233}{2.000}$ Container Type and # Type $\frac{3.5 - 6.233}{2.000}$ Could $\frac{3.5 - 6.233}{2.000}$ Could $\frac{3.5 - 6.233}{2.000}$ Could $\frac{3.5 - 6.233}{2.000}$ Could $\frac{3.5 - 6.23}{2.000}$	□ EDD (T	1 1			# of Coolers								<b>∀</b> O/			
Time Matrix Sample Name Type and # Type (2000000000000000000000000000000000000					Cooler Temp	(including CF).	とトンター				0	, N				
1140   5   5   5   5   5   5   5   5   5	Date Ti		Matrix		Container Type and #	7. Preservative Type	2000					3), F, B	110000			
1145   5WX - 70   002   X   150   003   X   150   004   X   150   X	11/22/15/	70	5	SWX-19		1	100	,	-				-			_
1150   500x - 2   000\$	=	45	_	02-XMS	, (		200		×				-			
155   5UX-27	-	20		12-205			500	1	X				-	\ \ \ \ \		
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7.05	2/ /	00		52-XMS	<u></u>	7	700						-	×		
Time: Relinquished by:    Coo   Pate   Pate   Pate   Pate   Pate     Coo   Pate     Coo   Pate     Coo   Pate   Pate		.05	У	42-XMS	乂	X	CXX.	1	لا		-			R		
Time: Relinquished by:    Coo   Coo   Coo   Coo   Coo   Coo     Coo   Co																
Time: Relinquished by:    Coo   Coo   Coo   Coo   Coo   Coo     Coo   Co		1														
Time: Relinquished by:    Coo   MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA																T// I
Time: Relinquished by:    Cool		H														
1600   Time: Relinquished by: Via: Bate Time   1600   16	ate:		elinauishe	phy:	Received hv.	Visi										
Time: Relinquished by: Via: Bate Time	1/22 16		CIV		WAYAY	_			Remar	ks: Ple Settle	ase er @eog	nail: An resourc	nber_(	sriffin@eogreso n; Tom.Larson@	urces.cor @ghd.con	η, 7;
	Tim (4)		elinquishe		Received by:	1 11	2	I	eath.B	oyd@	Za ghd.co Direct	ch.Con m Alon Bill to	nino@ g with EOG	ghd.com; Becky Haskell li Shase Settle	isted abov	Page v



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

May 04, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086

FAX:

RE: Yates AS Fee OrderNo.: 2204B36

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2204B36

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-17A

 Project:
 Yates AS Fee
 Collection Date: 4/25/2022 1:30:00 PM

 Lab ID:
 2204B36-001
 Matrix: SOIL
 Received Date: 4/27/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	650	60		mg/Kg	20	4/27/2022 11:58:19 PM	67123
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	JME
Diesel Range Organics (DRO)	960	97		mg/Kg	10	4/29/2022 9:11:30 AM	67094
Motor Oil Range Organics (MRO)	1300	490		mg/Kg	10	4/29/2022 9:11:30 AM	67094
Surr: DNOP	0	51.1-141	S	%Rec	10	4/29/2022 9:11:30 AM	67094
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/27/2022 3:41:53 PM	G87547
Surr: BFB	97.0	37.7-212		%Rec	5	4/27/2022 3:41:53 PM	G87547
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.089		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Toluene	ND	0.18		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Ethylbenzene	ND	0.18		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Xylenes, Total	ND	0.36		mg/Kg	5	4/27/2022 3:41:53 PM	R87547
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	5	4/27/2022 3:41:53 PM	R87547

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

Qualifiers:

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

Page 1 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204B36** 

04-May-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-67123 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67123 RunNo: 87579

Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3099437 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67123 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67123 RunNo: 87579

Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3099438 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

#### Hall Environmental Analysis Laboratory, Inc.

8.2

04-May-22

2204B36

WO#:

Client: GHD Midland
Project: Yates AS Fee

Sample ID: LCS-67094 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67094 RunNo: 87551 Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3098117 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 50 50.00 101 68.9 135 Surr: DNOP 3.8 5.000 76.6 51.1 141

Sample ID: MB-67094 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67094 RunNo: 87551 Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3098118 Units: mg/Kg 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

82.3

51.1

141

10.00

#### Qualifiers:

Surr: DNOP

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

Page 3 of 5

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204B36** 

04-May-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G87547 RunNo: 87547

Prep Date: Analysis Date: 4/27/2022 SeqNo: 3098795 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.0 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G87547 RunNo: 87547

Prep Date: Analysis Date: 4/27/2022 SeqNo: 3098796 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 84.9 72.3 137

Surr: BFB 1900 1000 192 37.7 212

Sample ID: mb-67073 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67073 RunNo: 87547

Prep Date: 4/26/2022 Analysis Date: 4/27/2022 SeqNo: 3098815 Units: %Rec

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

Surr: BFB 1000 1000 101 37.7 212

Sample ID: Ics-67073 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67073 RunNo: 87547

Prep Date: 4/26/2022 Analysis Date: 4/27/2022 SegNo: 3098816 Units: %Rec

%REC Analyte Result SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual 2200 1000 216 37.7 Surr: BFB 212 S

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204B36** *04-May-22* 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: R87547 RunNo: 87547 Prep Date: Analysis Date: 4/27/2022 SeqNo: 3098843 Units: mq/Kq PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: R87547 RunNo: 87547 Prep Date: Analysis Date: 4/27/2022 SeaNo: 3098844 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 80 120 0.84 0.025 n 83.8 Benzene Toluene 0.89 0.050 1.000 0 89.1 80 120 0.90 0.050 0 90.1 80 120 Ethylbenzene 1.000 0 90.7 80 Xylenes, Total 2.7 0.10 3.000 120 Surr: 4-Bromofluorobenzene 1 0 1.000 101 70 130

SampType: MBLK TestCode: EPA Method 8021B: Volatiles Sample ID: mb-67073 Client ID: PBS Batch ID: 67073 RunNo: 87547 Prep Date: Analysis Date: 4/27/2022 SeqNo: 3098863 Units: %Rec 4/26/2022 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.98 1.000 97.6 70 130 Surr: 4-Bromofluorobenzene

Sample ID: LCS-67073 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 67073 RunNo: 87547 Prep Date: 4/26/2022 Analysis Date: 4/27/2022 SeqNo: 3098864 Units: %Rec PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 103 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: 2204B36 RcptNo: 1 Received By: Juan Rojas 4/27/2022 7:10:00 AM Completed By: Tracy Casarrubias 4/27/2022 8:08:51 AM Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 NA 🔲 Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? V No 🗌 8. Was preservative added to bottles? Yes No V NA 🗌 Received at least 1 vial with headspace <1/4" for AQ VOA?</li> Yes No 🗌 NA V 10. Were any sample containers received broken? Yes No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 Checked by: 11 4/27/22 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No  $\square$ NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 5.4 Good Yes 2 5.2 Good Yes

Client:	Citatil-Ol-Custody Record		cei
CHI	□ Standard □/Rush ≥ 7 k.r		ed by
		DRATORY	00
Mailing Address: 2135 S. Loop 2	250 W. Yates AS Fee		CD: 5/
Midland, TX 79703	Project #:	- Albuquelque, INM 87 109	17/2
Phone #: 432-686-0086	1028 2211	rax 303-343-410/	022
email or Fax#: Ton. Larson @ Cot	ひみせひ このM Project Manager:	(1	4:3
QA/QC Package:   Standard  Level 4 (Full Validation)		SO <sup>†</sup> 2C	4:03 PM
Accreditation:   Az Compliance  Other	Sampler: Heath Boyd @ CHD, COM	(8082   NO <sub>2</sub> , 1) (8270   NO <sub>2</sub> , 1) (1)	1
ype)	olers: 7	3R(S) (A) (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	
	(including CF): 5- 14	eticio ethoo 831 Met , No (AC	
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2204 R.Z.	BTEX / BO81 Pe BO81 Pe BO81 Pe SZFO (SG SZFO (VG CD (SG	
4/25/2 1330 5 SW-17A	nla	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Ë			
0	Received by: Via: Date Time	Remarks:	Pa
Date: Time: Relinquished by:	T Date T		ge 446
If necessary, samples submitted to Hall Environmental	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.		of \$2



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

May 06, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Yates AS Fee OrderNo.: 2204C45

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** GHD Midland

# **Analytical Report**

Lab Order **2204C45**Date Reported: **5/6/2022** 

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-10A

 Project:
 Yates AS Fee
 Collection Date: 4/26/2022 1:00:00 PM

 Lab ID:
 2204C45-001
 Matrix: SOIL
 Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	86	60	mg/Kg	20	4/28/2022 11:05:21 PM	67152
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	170	9.5	mg/Kg	1	4/29/2022 11:53:10 AM	67140
Motor Oil Range Organics (MRO)	360	47	mg/Kg	1	4/29/2022 11:53:10 AM	67140
Surr: DNOP	73.6	51.1-141	%Rec	1	4/29/2022 11:53:10 AM	67140
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/28/2022 5:17:33 PM	G87603
Surr: BFB	101	37.7-212	%Rec	1	4/28/2022 5:17:33 PM	G87603
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Toluene	ND	0.041	mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Ethylbenzene	ND	0.041	mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Xylenes, Total	ND	0.083	mg/Kg	1	4/28/2022 5:17:33 PM	B87603
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	4/28/2022 5:17:33 PM	B87603

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

Qualifiers:

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

Page 1 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C45 06-May-22** 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-67152 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67152 RunNo: 87612

Prep Date: 4/28/2022 Analysis Date: 4/28/2022 SeqNo: 3101219 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67152 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67152 RunNo: 87612

Prep Date: 4/28/2022 Analysis Date: 4/28/2022 SeqNo: 3101220 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.6 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C45** 

06-May-22

Client: GHD Midland Project: Yates AS Fee

Sample ID: LCS-67140	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ı ID: <b>67</b> 1	140	F	RunNo: 87	7613				
Prep Date: 4/28/2022	Analysis D	ate: <b>4/</b> 2	28/2022	5	SeqNo: 31	101296	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.0	68.9	135			
Surr: DNOP	4.2		5.000		84.7	51.1	141			

Sample ID: MB-67140	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: <b>67</b> 1	140	F	RunNo: 87	7613				
Prep Date: 4/28/2022	Analysis D	)ate: <b>4/</b> 2	28/2022	5	SeqNo: 3	101300	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	9.5		10.00		94.8	51.1	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 5

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C45 06-May-22** 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G87603 RunNo: 87603

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3100391 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 98.7 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G87603 RunNo: 87603

Prep Date: Analysis Date: 4/28/2022 SeqNo: 3100392 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 97.0
 72.3
 137

 Surr: BFB
 2000
 1000
 204
 37.7
 212

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C45** *06-May-22* 

Client: GHD Midland
Project: Yates AS Fee

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: <b>B8</b>	7603	F	RunNo: 87	7603				
Prep Date:	Analysis D	Date: 4/2	29/2022	5	SeqNo: 31	100434	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 100ng btex lcs	Samp <sup>-</sup>	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: <b>B8</b> '	7603	F	RunNo: 87	7603				
Prep Date:	Analysis [	Date: <b>4/</b> 2	28/2022	5	SeqNo: 3	100435	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

#### Qualifiers:

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name:	GHD Midland	Work Order Nun	nber: 2204C45		RcptNo: 1
Received By:	Joseph Alderette	4/28/2022 2:45:00	РМ	P	
Completed By:	Tracy Casarrubias	4/28/2022 2:49:58	PM	12	
Reviewed By:	Sea 4/24				
Chain of Cus	stody				
1. Is Chain of C	custody complete?		Yes 🗸	No 🗆	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	npt made to cool the sar	mples?	Yes 🗸	No 🗌	NA 🗆
4. Were all sam	ples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗆	
6. Sufficient sam	nple volume for indicated	I test(s)?	Yes 🗸	No 🗌	
7. Are samples (	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌	
3. Was preserva	tive added to bottles?		Yes	No 🔽	NA 🗆
9. Received at le	east 1 vial with headspac	e <1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹
0. Were any sar	mple containers received	broken?	Yes	No 🗹	# of preserved
	ork match bottle labels? ancies on chain of custo	dy)	Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless noted
2. Are matrices of	correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗆	Adjusted?
	t analyses were requeste		Yes 🗸	No 🗌	
	ng times able to be met? ustomer for authorization		Yes 🗹	No 🗆	Checked by: DAD 4/28/2
pecial Handl	ing (if applicable)				
5. Was client no	tified of all discrepancies	s with this order?	Yes 🗌	No 🗌	NA 🗹
Person	Notified:	Date			
By Who	,	Via:	eMail F	Phone  Fax	☐ In Person
Regardi					
	nstructions:				
6. Additional rer	marks:				
7. Cooler Infor	the first recognition of the last term o				
Cooler No	Temp °C Condition		Seal Date	Signed By	
1	2.4 Good	Yes			

reived by Relinquished by:	/22 1800	 2 4:34	:03 P	M			4/26/22 1300 5	Date Time Matrix			☐ EDD (Type)	□ NELAC □ Other	Accreditation: ☐ Az Co	☐ Standard	QA/QC Package:	email or Fax#: Tom. L.	: 432-6	Midland, TX	اعiling Address: کررج	Pago	454 Client: 0 HD	of 52 Chain-of-Cu
HDD CULLULAR Received by: Via: Date Time  Received by: Via: Date Time  COUNTY 4-28-22 19:45	ed by:						5W-10A	Sample Name				7	Az Compliance	☐ Level 4 (Full Validation)		Larson @ GHD. LOM	98-0086	79703	5			Chain-of-Custody Record
Received by:	Received by:						402 Jar/1	Type and #	Container	Cooler Terr	# of Coolers:	On Ice:	Sampler: H	inton:	Becky.	Project Manager:	10482211	Project #:	Yates	Project Name:	□ Standard	Turn-Around Time:
Via:	Via:						NIA	Туре	Preservative	Cooler Temp(including CF): 7.4-0	1	☐ Yes	Heath. Boyde		Haskell	nager:	101		AS E		rd Z Rush	d Time:
Date Time 4-28-22 /4:45	Date Time						8	22	e HEAL No.	(0°) h.2-0-4.	4	□ No	JEGHD. com		Becky. Haskell OGHD. com,				Fer		14 54 Y	
	Rei			+		+	X	ВТ	EX /	PERSON.	BE	/ -	ГМЕ	3's (8	3021	1)					_	
	Remarks:						×		H:80			_						-1	49			
	92							808	31 Pe	estic	ide	s/8	082	PC	B's			Tel. 505-345-3975	4901 Hawkins NE			
								ED	В (М	eth	od 5	504	.1)					5-34	awki		<b>D</b> 5	-
								PA	Hs b	y 83	310	or	827	0SIN	ИS			5-39	ns N			
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# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Released to Imaging: 9/2/2022 9:24:33 AM





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

May 09, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates AS Fee OrderNo.: 2204C79

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 2204C79

Date Reported: 5/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-11

 Project:
 Yates AS Fee
 Collection Date: 4/27/2022 12:00:00 PM

 Lab ID:
 2204C79-001
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1400	60	mg/Kg	20	4/29/2022 5:30:09 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: ЈМЕ
Diesel Range Organics (DRO)	1000	44	mg/Kg	5	4/29/2022 11:36:59 AM	67158
Motor Oil Range Organics (MRO)	490	220	mg/Kg	5	4/29/2022 11:36:59 AM	67158
Surr: DNOP	80.8	51.1-141	%Rec	5	4/29/2022 11:36:59 AM	67158
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	4/29/2022 9:27:06 AM	G87621
Surr: BFB	129	37.7-212	%Rec	5	4/29/2022 9:27:06 AM	G87621
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.091	mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Toluene	ND	0.18	mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Ethylbenzene	ND	0.18	mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Xylenes, Total	ND	0.37	mg/Kg	5	4/29/2022 9:27:06 AM	B87621
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	5	4/29/2022 9:27:06 AM	B87621

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

Qualifiers:

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

Page 1 of 7

#### **Analytical Report**

Lab Order 2204C79

Date Reported: 5/9/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** GHD Midland Client Sample ID: BHX-14

**Collection Date:** 4/27/2022 12:10:00 PM **Project:** Yates AS Fee 2204C79-002 Lab ID: Matrix: SOIL Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	1600	60		mg/Kg	20	4/29/2022 5:42:29 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: JME
Diesel Range Organics (DRO)	2700	97		mg/Kg	10	4/29/2022 10:36:36 AM	67158
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	4/29/2022 10:36:36 AM	67158
Surr: DNOP	0	51.1-141	S	%Rec	10	4/29/2022 10:36:36 AM	67158
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	28	20		mg/Kg	5	4/29/2022 9:50:45 AM	G87621
Surr: BFB	177	37.7-212		%Rec	5	4/29/2022 9:50:45 AM	G87621
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.10		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Toluene	ND	0.20		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Ethylbenzene	0.47	0.20		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Xylenes, Total	ND	0.40		mg/Kg	5	4/29/2022 9:50:45 AM	B87621
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	4/29/2022 9:50:45 AM	B87621

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

Page 2 of 7

#### **Analytical Report**

Lab Order **2204C79** 

Date Reported: 5/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BHX-15

 Project:
 Yates AS Fee
 Collection Date: 4/27/2022 12:20:00 PM

 Lab ID:
 2204C79-003
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	2000	150	mg/Kg	50	5/2/2022 7:22:51 PM	67170
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	410	8.9	mg/Kg	1	4/29/2022 11:08:57 AM	67158
Motor Oil Range Organics (MRO)	200	45	mg/Kg	1	4/29/2022 11:08:57 AM	67158
Surr: DNOP	95.1	51.1-141	%Rec	1	4/29/2022 11:08:57 AM	67158
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	4/29/2022 10:14:23 AM	G87621
Surr: BFB	100	37.7-212	%Rec	5	4/29/2022 10:14:23 AM	G87621
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.093	mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Toluene	ND	0.19	mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Ethylbenzene	ND	0.19	mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Xylenes, Total	ND	0.37	mg/Kg	5	4/29/2022 10:14:23 AM	B87621
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	5	4/29/2022 10:14:23 AM	B87621

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

Qualifiers:

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

Page 3 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C79** 

09-May-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-67170 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67170 RunNo: 87647

Prep Date: 4/29/2022 Analysis Date: 4/29/2022 SeqNo: 3102914 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67170 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67170 RunNo: 87647

Prep Date: 4/29/2022 Analysis Date: 4/29/2022 SeqNo: 3102915 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C79** 

09-May-22

Client: GHD Midland
Project: Yates AS Fee

Sample ID: MB-67158 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67158 RunNo: 87609 Units: mg/Kg Prep Date: 4/29/2022 Analysis Date: 4/29/2022 SeqNo: 3102248 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.7 10.00 87.0 51.1 141

Sample ID: LCS-67158 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67158 RunNo: 87609 Prep Date: 4/29/2022 Analysis Date: 4/29/2022 SeqNo: 3102249 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual 135

Diesel Range Organics (DRO) 48 10 50.00 0 95.6 68.9 135 Surr: DNOP 4.1 5.000 81.8 51.1 141

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

#### Hall Environmental Analysis Laboratory, Inc.

#: 2204C79 09-May-22

WO#:

Client: GHD Midland Project: Yates AS Fee

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G87621 RunNo: 87621

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102438 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G87621 RunNo: 87621

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102439 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 72.3 5.0 25.00 O 100 137

Surr: BFB 2100 1000 208 37.7 212

Sample ID: 2204c79-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BHX-11** Batch ID: **G87621** RunNo: **87621** 

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102444 Units: mg/Kg

SPK value SPK Ref Val Result %REC HighLimit %RPD **RPDLimit** Analyte POI LowLimit Qual Gasoline Range Organics (GRO) 86 18 91.37 16.48 76.4 70 130

Surr: BFB 7400 3655 203 37.7 212

Sample ID: 2204c79-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BHX-11 Batch ID: G87621 RunNo: 87621

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102445 Units: mq/Kq

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 110 18 91.37 16.48 104 70 130 25.4 20 R Surr: BFB 8300 3655 227 37.7 212 0 0 S

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 7

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2204C79

09-May-22

**Client:** GHD Midland **Project:** Yates AS Fee

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

Client ID: PBS Batch ID: **B87621** RunNo: 87621

Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102497 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.98 1.000 97.7 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **B87621** RunNo: 87621

Prep Date:	Date: Analysis Date: 4/29/2022		29/2022	٤	seqNo: 3	102498	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.89	0.050	1.000	0	89.2	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	1.0		1.000		100	70	130			

Sample ID: 2204c79-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BHX-14 Batch ID: **B87621** RunNo: 87621 Prep Date: Analysis Date: 4/29/2022 SeqNo: 3102503 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 4.0 0.10 3.990 99.8 68.8 n 120 Benzene Toluene 4.2 0.20 3.990 0 106 73.6 124 129 Ethylbenzene 0.20 3.990 105 72.7 47 0.4665 Xylenes, Total 13 0.40 11.97 0.2354 104 75.7 126

TestCode: EPA Method 8021B: Volatiles Sample ID: 2204c79-002amsd SampType: MSD

3.990

Batch ID: **B87621** RunNo: 87621 Client ID: BHX-14

4.3

Prep Date:	Analysis Date: 4/29/2022				SeqNo: 3	102504	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.5	0.10	3.990	0	112	68.8	120	11.5	20	
Toluene	4.8	0.20	3.990	0	120	73.6	124	12.8	20	
Ethylbenzene	5.4	0.20	3.990	0.4665	122	72.7	129	13.5	20	
Xylenes, Total	15	0.40	11.97	0.2354	119	75.7	126	13.6	20	
Surr: 4-Bromofluorobenzene	4.4		3.990		111	70	130	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank

107

130

70

- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

	dland	Work Order N	umber: 2204C7	9	RcptNo: 1	
Received By: Juan Re	ojas	4/29/2022 7:10:0	00 AM	Hours	<i>i</i> 2	
0	asarrubias 79-77	4/29/2022 7:46:4				
Chain of Custody						
, Is Chain of Custody con	plete?		Yes 🗸	No 🗌	Not Present	
How was the sample de	livered?		Courier	ло 🗀	Not Flesent	
<u>Log In</u>						
. Was an attempt made to	cool the samples?		Yes 🗸	No 🗆	NA 🗆	
. Were all samples receive	ed at a temperature o	of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
. Sample(s) in proper cont	ainer(s)?		Yes 🗸	No 🗆		
Sufficient sample volume	for indicated test(s)	?	Yes 🗸	No 🗌		
Are samples (except VOA	and ONG) properly	preserved?	Yes 🗹	No 🗆		
Was preservative added t			Yes 🗌	No 🗹	NA 🗌	
Received at least 1 vial wi	th headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗆	NA 🔽	
Were any sample contain	ers received broken	?	Yes	No 🗹		
Does paperwork match bo (Note discrepancies on ch	ttle labels? ain of custody)		Yes 🗸	No 🗆	# of preserved bottles checked for pH:	
Are matrices correctly ider	tified on Chain of C	ustody?	Yes 🗸	No 🗆	(<2 or >12 unl Adjusted?	ess noted)
Is it clear what analyses w	ere requested?		Yes 🗸	No 🗆		
Were all holding times able (If no, notify customer for a	e to be met? authorization.)		Yes 🗸	No 🗆	Checked by: JN	1/29/2
ecial Handling (if app				~		
Was client notified of all di	screpancies with thi	s order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:		Date				
By Whom:		Via:	eMail	Phone Fax	In Person	
Regarding: Client Instructions:						

Recei		-	D: 5/.	17/2	022	4:34.	:03 PN	1											P	age 465 of	
	HALL ENVIRONMENTAL	AINALISIS LABORALOR	www.nallenvironmental.com	Tel 505-345-3975	Analysis Request	<sup>†</sup> O	O <sup>†</sup> ? SIW? SCB,?	(1.4) (1.4) (1.4) (1.4) (1.4)	38/88 504 3, 10 3, 1	ide ide itali itali itali itali itali	estice Methory 8 Me 8 Me 3r, <i>N</i> (AOV)	8081 P 8081 P EDB ( <i>N</i> 7CRA 3CGA 3CGO ( <i>Y</i> 3SZ70 (9 5250 (7	3	, X	人				Remarks: Please Enail: Tom, Becky, Urath,	Sutte @ EOGRESOURCES, COM Sutte @ EOGRESOURCES, COM mino @ EOGRESOURCES, COM Pail to FOLMIL	Any sub-contracted data will be clearly
	Ц					(1	Z08) s	:BMT	1	38	TM ,	X3T8	×	X	-				Rema	The series	ossibilit
d Time:	rd & Rush 24 L.		45 Fec		11528401	lager:	y. Haskell @ GHOLON	oyd	- Pes □ No		P(including CF): 1.9-0-1.9 (°C)	Preservative HEAL No.	100	200	7000 X				Time	Via: Date Time O	accredited laboratories. This serves as notice of this
Turn-Around Time:	_ □ Standard	Project Name:	\/ates	Project #:	1122	Project Manager:	Becky.	1	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	402. Jul 1		-1				Received by:	Received by:	intracted to other a
Chain-of-Custody Record	Client: CHD		s: 2135	Midland, TX 79703	Phone #: 432- 686- 0086	email or Fax#: Tom. Larson @ GHD, Com	QA/QC Package:  □ Standard □ Level 4 (Full Validation)	☐ Az Con		□ EDD (Type)		Date Time Matrix Sample Name	11-xHQ 5 0021 12/h	1 1210   BHK-14	X 1220 X BHX-15				Date: Time: Relinquished by:	Time: Relinquished by:	If necessary, samples submitted to Hall Environmental may be subco



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

May 09, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates As Fee OrderNo.: 2204D43

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2204D43

Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-72A

 Project:
 Yates As Fee
 Collection Date: 4/28/2022 12:00:00 PM

 Lab ID:
 2204D43-001
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	2200	60	mg/Kg	20	5/3/2022 11:51:22 AM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	270	9.5	mg/Kg	1	5/3/2022 2:42:02 AM	67195
Motor Oil Range Organics (MRO)	200	47	mg/Kg	1	5/3/2022 2:42:02 AM	67195
Surr: DNOP	84.0	51.1-141	%Rec	1	5/3/2022 2:42:02 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/30/2022 3:50:00 PM	A87642
Surr: BFB	99.7	37.7-212	%Rec	1	4/30/2022 3:50:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.019	mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Toluene	ND	0.039	mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Ethylbenzene	ND	0.039	mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Xylenes, Total	ND	0.077	mg/Kg	1	4/30/2022 3:50:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.5	70-130	%Rec	1	4/30/2022 3:50:00 PM	B87642

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

Qualifiers:

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

Page 1 of 7

# Analytical Report Lab Order 2204D43

Date Reported: 5/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-95A

 Project:
 Yates As Fee
 Collection Date: 4/28/2022 12:10:00 PM

 Lab ID:
 2204D43-002
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	1600	60	mg/Kg	20	5/3/2022 12:03:42 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	:: <b>ED</b>
Diesel Range Organics (DRO)	15	8.8	mg/Kg	1	5/3/2022 3:06:21 AM	67195
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/3/2022 3:06:21 AM	67195
Surr: DNOP	85.7	51.1-141	%Rec	1	5/3/2022 3:06:21 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analys	: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	4/30/2022 4:10:00 PM	A87642
Surr: BFB	104	37.7-212	%Rec	1	4/30/2022 4:10:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analys	: BRM
Benzene	ND	0.019	mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Toluene	ND	0.037	mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Ethylbenzene	ND	0.037	mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Xylenes, Total	ND	0.075	mg/Kg	1	4/30/2022 4:10:00 PM	B87642
Surr: 4-Bromofluorobenzene	81.1	70-130	%Rec	1	4/30/2022 4:10:00 PM	B87642

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

Qualifiers:

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

Page 2 of 7

Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SWX-24A

 Project:
 Yates As Fee
 Collection Date: 4/28/2022 12:20:00 PM

 Lab ID:
 2204D43-003
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1000	59	mg/Kg	20	5/3/2022 12:16:02 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/3/2022 3:30:40 AM	67195
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/3/2022 3:30:40 AM	67195
Surr: DNOP	76.5	51.1-141	%Rec	1	5/3/2022 3:30:40 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/30/2022 4:29:00 PM	A87642
Surr: BFB	99.3	37.7-212	%Rec	1	4/30/2022 4:29:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.019	mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Toluene	ND	0.038	mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Ethylbenzene	ND	0.038	mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Xylenes, Total	ND	0.076	mg/Kg	1	4/30/2022 4:29:00 PM	B87642
Surr: 4-Bromofluorobenzene	80.2	70-130	%Rec	1	4/30/2022 4:29:00 PM	B87642

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

Qualifiers:

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

Page 3 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D43** 

09-May-22

Client: GHD Midland
Project: Yates As Fee

Sample ID: MB-67219 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67219 RunNo: 87695

Prep Date: 5/3/2022 Analysis Date: 5/3/2022 SeqNo: 3106788 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67219 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67219 RunNo: 87695

Prep Date: 5/3/2022 Analysis Date: 5/3/2022 SeqNo: 3106789 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.4 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

## Hall Environmental Analysis Laboratory, Inc.

3.6

WO#: **2204D43** *09-May-22* 

Client: GHD Midland
Project: Yates As Fee

Sample ID: MB-67195 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67195 RunNo: 87671 Units: mg/Kg Prep Date: 5/2/2022 Analysis Date: 5/2/2022 SeqNo: 3104298 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 5.2 10.00 52.4 51.1 141

Sample ID: LCS-67195 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67195 RunNo: 87694 Prep Date: 5/2/2022 Analysis Date: 5/3/2022 SeqNo: 3105598 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 50.00 101 68.9 135

72.7

51.1

141

5.000

#### Qualifiers:

Surr: DNOP

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

Page 5 of 7

## Hall Environmental Analysis Laboratory, Inc.

#: 2204D43 09-May-22

WO#:

Client: GHD Midland
Project: Yates As Fee

Sample ID: 2.5ug GRO Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A87642 RunNo: 87642

Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102627 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Gasoline Range Organics (GRO) 0 25 5.0 25.00 101 72.3 137 Surr: BFB 2100 1000 212 37.7 212 S

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS Batch ID: A87642 RunNo: 87642
Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102628 Units: mg/Kg

LowLimit

HighLimit

%RPD

**RPDLimit** 

Qual

Analyte Result PQL SPK value SPK Ref Val %REC
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 106 37.7 212

#### Qualifiers:

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

Page 6 of 7

**Project:** 

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204D43 09-May-22

**Client:** GHD Midland Yates As Fee

Sample ID: 100ng BTEX Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: **B87642** RunNo: 87642 Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102639 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Benzene 0.95 0.025 1.000 0 94.8 80 120 Toluene 0.98 0.050 1.000 0 98.2 80 120 0 Ethylbenzene 0.050 1.000 99.8 80 120 1.0 0 99.7 Xylenes, Total 3.0 0.10 3.000 80 120 0.85 85.2 Surr: 4-Bromofluorobenzene 1.000 70 130

Sample ID: mb	SampT	Гуре: <b>МЕ</b>	BLK	Tes									
Client ID: PBS	Batcl	h ID: <b>B8</b>	7642	F	RunNo: 8								
Prep Date:	Analysis [	Date: <b>4/</b>	30/2022	S	SeqNo: 3	102640	Units: mg/K	nits: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130						

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

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

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

Client Name: GH	D Midland	Work Order Num	ber: 2204D43		RcptNo: 1	
Received By: Ju	an Rojas	4/30/2022 8:30:00	АМ	Human &		
Completed By: Ju	an Rojas	4/30/2022 8:55:27	AM	Hansay		
	4/30/2022			, 2		
Chain of Custody	2					
1. Is Chain of Custod	y complete?		Yes 🔽	No 🗌	Not Present	
2. How was the samp	ole delivered?		Courier			
Log In						
Was an attempt m	ade to cool the samp	oles?	Yes 🗸	No 🗆	NA 🗆	
4. Were all samples re	eceived at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No. 🗆	NA 🗆	
5. Sample(s) in prope	r container(s)?		Yes 🗸	No 🖂		
6. Sufficient sample v	olume for indicated t	est(s)?	Yes 🗸	No 🔲		
7. Are samples (excep	ot VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗌		
8. Was preservative a	dded 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 o	containers received b	proken?	Yes	No 🗸		
					# of preserved bottles checked	
<ol> <li>Does paperwork ma (Note discrepancies</li> </ol>		a.	Yes 🗸	No 🗌	for pH:	
2. Are matrices correc			Yes 🗸	No 🗆	(<2 or >12 un Adjusted2	less noted)
3. Is it clear what analy			Yes 🗸	No 🗆		
4. Were all holding tim			Yes 🗸	No 🗆	Checked by: Jin4	13012
(If no, notify custom			100	(		13012
Special Handling (	if applicable)					
15. Was client notified	-	with this order?	Yes	No 🗆	NA 🔽	
Person Notifie	ed:	Date				
By Whom:		Via:		Phone Fax	In Person	
Regarding:				A 4612-1-1 1 1 1 1 1		
Client Instruc	tions:					
16. Additional remarks						
17. Cooler Informatio						
	<u>n</u> mp ⁰C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 5.5	Good			eighted by		

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	24 hr						askell @ CaHD. com		C GHDCOM	□ No		(0.) -5 -5 -1.0-0	HEAL NO.	-001	200-	-003								Date Time	12 (8U)	1 2
	d Rush		As Fee		1048	ager:	Haskell		Sampler: Heath . Boyd @	-⊟-Yes		(including CF): \(  \)	Preservative Type	alm		X								Via:	1	Via:
T. Control of the con	□ Standard	Project Name:	Yates	Project #:	0482211	Pro	Becky. H	7.	Sampler: He	On Ice:	# of Coolers:	Cooler Temp(including cF):	Container Type and #	402.Jar/1	2=	-X								Received by:	Childs	Received by:
Chair of Castody Necol a			5 S. Loop 250 W.		686-0086	Larson @ GHD. Con	Valida	(י מון מתומקום)	☐ Az Compliance				Sample Name	BH-72A	BH-45A	5Wx-24A									H	
5	Δ		Mailing Address: 2 (35			ton.				□ Other			Matrix	5	-	X								Relinquished by:		Relinquished by:
	ロゼワ		g Address		#: H32-	email or Fax#:	QA/QC Package:		Accreditation:	□ NELAC	(Type)		Time	1200	0121	مكا								Time:	00%)	Time:
	Client:		Mailing		Phone #:	email	QA/QC Packa		Accred	I NET			Date	4/50	-	2								Date:	1/m	Date:



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

May 09, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

**FAX** 

RE: Yates As Fee OrderNo.: 2204D42

#### Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-113A

 Project:
 Yates As Fee
 Collection Date: 4/29/2022 1:00:00 PM

 Lab ID:
 2204D42-001
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	780	60	mg/Kg	20	5/3/2022 12:28:23 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: ED
Diesel Range Organics (DRO)	210	8.6	mg/Kg	1	5/3/2022 1:04:45 AM	67195
Motor Oil Range Organics (MRO)	160	43	mg/Kg	1	5/3/2022 1:04:45 AM	67195
Surr: DNOP	75.9	51.1-141	%Rec	1	5/3/2022 1:04:45 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	4/30/2022 1:51:00 PM	A87642
Surr: BFB	98.4	37.7-212	%Rec	1	4/30/2022 1:51:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.018	mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Toluene	ND	0.036	mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Ethylbenzene	ND	0.036	mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Xylenes, Total	ND	0.072	mg/Kg	1	4/30/2022 1:51:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.8	70-130	%Rec	1	4/30/2022 1:51:00 PM	B87642

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

Qualifiers:

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

Page 1 of 8

Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-121A

 Project:
 Yates As Fee
 Collection Date: 4/29/2022 1:10:00 PM

 Lab ID:
 2204D42-002
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	5400	300	mg/Kg	100	5/4/2022 5:12:42 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: ED
Diesel Range Organics (DRO)	540	8.7	mg/Kg	1	5/3/2022 1:28:59 AM	67195
Motor Oil Range Organics (MRO)	320	43	mg/Kg	1	5/3/2022 1:28:59 AM	67195
Surr: DNOP	95.8	51.1-141	%Rec	1	5/3/2022 1:28:59 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	4/30/2022 2:51:00 PM	A87642
Surr: BFB	127	37.7-212	%Rec	1	4/30/2022 2:51:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	:: BRM
Benzene	ND	0.018	mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Toluene	ND	0.037	mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Ethylbenzene	ND	0.037	mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Xylenes, Total	ND	0.073	mg/Kg	1	4/30/2022 2:51:00 PM	B87642
Surr: 4-Bromofluorobenzene	86.7	70-130	%Rec	1	4/30/2022 2:51:00 PM	B87642

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

Qualifiers:

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

Page 2 of 8

Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-123A

 Project:
 Yates As Fee
 Collection Date: 4/29/2022 1:20:00 PM

 Lab ID:
 2204D42-003
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LRN
Chloride	3300	150	mg/Kg	50	5/4/2022 5:25:06 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	:: ED
Diesel Range Organics (DRO)	700	8.8	mg/Kg	1	5/3/2022 1:53:22 AM	67195
Motor Oil Range Organics (MRO)	420	44	mg/Kg	1	5/3/2022 1:53:22 AM	67195
Surr: DNOP	102	51.1-141	%Rec	1	5/3/2022 1:53:22 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/30/2022 3:11:00 PM	A87642
Surr: BFB	142	37.7-212	%Rec	1	4/30/2022 3:11:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	:: BRM
Benzene	ND	0.020	mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Toluene	ND	0.040	mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Ethylbenzene	ND	0.040	mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Xylenes, Total	ND	0.080	mg/Kg	1	4/30/2022 3:11:00 PM	B87642
Surr: 4-Bromofluorobenzene	87.2	70-130	%Rec	1	4/30/2022 3:11:00 PM	B87642

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

Qualifiers:

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

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Date Reported: 5/9/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-17B

 Project:
 Yates As Fee
 Collection Date: 4/29/2022 1:30:00 PM

 Lab ID:
 2204D42-004
 Matrix: SOIL
 Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	5/3/2022 1:05:25 PM	67219
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/3/2022 2:17:37 AM	67195
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/3/2022 2:17:37 AM	67195
Surr: DNOP	61.2	51.1-141	%Rec	1	5/3/2022 2:17:37 AM	67195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	4/30/2022 3:30:00 PM	A87642
Surr: BFB	98.3	37.7-212	%Rec	1	4/30/2022 3:30:00 PM	A87642
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.022	mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Toluene	ND	0.045	mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Ethylbenzene	ND	0.045	mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Xylenes, Total	ND	0.089	mg/Kg	1	4/30/2022 3:30:00 PM	B87642
Surr: 4-Bromofluorobenzene	79.8	70-130	%Rec	1	4/30/2022 3:30:00 PM	B87642

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

Qualifiers:

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

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D42** 

09-May-22

Client: GHD Midland
Project: Yates As Fee

Sample ID: MB-67219 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67219 RunNo: 87695

Prep Date: 5/3/2022 Analysis Date: 5/3/2022 SeqNo: 3106788 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67219 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67219 RunNo: 87695

Prep Date: 5/3/2022 Analysis Date: 5/3/2022 SeqNo: 3106789 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.4 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 8

# Hall Environmental Analysis Laboratory, Inc.

2204D42 09-May-22

WO#:

Client: GHD Midland
Project: Yates As Fee

Sample ID: MB-67195 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67195 RunNo: 87671 Units: mg/Kg Prep Date: 5/2/2022 Analysis Date: 5/2/2022 SeqNo: 3104298 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 5.2 10.00 52.4 51.1 141

Sample ID: LCS-67195 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67195 RunNo: 87694 Prep Date: 5/2/2022 Analysis Date: 5/3/2022 SeqNo: 3105598 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 50.00 101 68.9 135 Surr: DNOP 3.6 5.000 72.7 51.1 141

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D42** 

09-May-22

Client: GHD Midland
Project: Yates As Fee

Sample ID: 2.5ug GRO Ics	SampT	ype: <b>LC</b>	S	Tes	е						
Client ID: LCSS	Batcl	n ID: <b>A8</b>	7642	F	RunNo: 8	7642					
Prep Date:	Analysis D	oate: <b>4/</b>	30/2022	S	SeqNo: 3	102627	Units: mg/K				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137				
Surr: BFB	2100		1000		212	37.7	212			S	
Sample ID: <b>mb</b>	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range							
i											

Client ID: PBS Batch ID: A87642 RunNo: 87642 Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102628 Units: mg/Kg Result LowLimit Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 106 37 7 212

Sample ID: 2204D42-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BH-121A Batch ID: A87642 RunNo: 87642 Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102637 Units: mg/Kg SPK value SPK Ref Val %REC Result PQL HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 20 3.7 18.26 1.366 102 70 130 Surr: BFB S 1600 730.5 224 37.7 212

Sample ID: 2204D42-002amsd TestCode: EPA Method 8015D: Gasoline Range SampType: MSD Client ID: BH-121A Batch ID: A87642 RunNo: 87642 Prep Date: Analysis Date: 4/30/2022 SeqNo: 3102638 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 20 3.7 18.26 1.366 102 70 130 0.0730 20 Surr: BFB 1600 730.5 223 37.7 212 0 0 S

#### Qualifiers:

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

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D42** *09-May-22* 

Client: GHD Midland Project: Yates As Fee

Sample ID: 100ng BTEX Ics	Samp1	Гуре: <b>LC</b>	S	Tes							
Client ID: LCSS	Batcl	h ID: <b>B8</b>	7642	F	RunNo: 8	7642					
Prep Date:	Analysis [	Date: <b>4/</b> 3	30/2022	S	SeqNo: 3	102639	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.025	1.000	0	94.8	80	120				
Toluene	0.98	0.050	1.000	0	98.2	80	120				
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120				
Xylenes, Total	3.0	3.0 0.10 3.000			99.7	80	120				
Surr: 4-Bromofluorobenzene	0.85	0.85 1.000			85.2	70	130				

Sample ID: mb	Samp1	Гуре: <b>МЕ</b>	BLK	Tes							
Client ID: PBS	Batcl	h ID: <b>B8</b>	7642	F	RunNo: 8						
Prep Date:	Analysis [	Date: <b>4/</b>	30/2022	8	SeqNo: 3	102640	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130				

Sample ID: 2204D42-001ams	SampT	уре: <b>М</b>	3	Tes							
Client ID: BH-113A	Batch	n ID: <b>B8</b>	7642	F	RunNo: 8						
Prep Date:	Analysis D	oate: 4/	30/2022	S	SeqNo: 3	102649	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.66	0.018	0.7205	0	91.9	68.8	120				
Toluene	0.68	0.036	0.7205	0	94.9	73.6	124				
Ethylbenzene	0.69	0.036	0.7205	0	95.4	72.7	129				
Xylenes, Total	2.1	0.072	2.162	0	95.0	75.7	126				
Surr: 4-Bromofluorobenzene	0.55		0.7205		75.8	70	130				

Sample ID: 2204D42-001ams	<b>sd</b> SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH-113A	Batch	n ID: <b>B8</b>	7642	F	RunNo: 8	7642				
Prep Date:	Analysis D	ate: <b>4/</b> 3	30/2022	S	SeqNo: 3	102650	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.018	0.7205	0	89.1	68.8	120	3.17	20	
Toluene	0.66	0.036	0.7205	0	91.8	73.6	124	3.29	20	
Ethylbenzene	0.67	0.036	0.7205	0	93.3	72.7	129	2.20	20	
Xylenes, Total	2.0	0.072	2.162	0	92.9	75.7	126	2.23	20	
Surr: 4-Bromofluorobenzene	0.55		0.7205		75.8	70	130	0	0	

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

ABORATORY Website: www.hallenvironmental.com Client Name: **GHD Midland** Work Order Number: 2204D42 RcptNo: 1 Received By: Juan Rojas 4/30/2022 8:30:00 AM Completed By: Juan Rojas 4/30/2022 8:48:26 AM 1 04/30/2022 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No NA Were all samples received at a temperature of >0° C to 6.0°C No Yes 🗸 NA \_ Sample(s) in proper container(s)? No 🗌 Yes V 6. Sufficient sample volume for indicated test(s)? No 🗌 7. Are samples (except VOA and ONG) properly preserved? No 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA V 10. Were any sample containers received broken? No V Yes # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? No 13. Is it clear what analyses were requested? Yes V No Checked by: 11/4/30/72 14. Were all holding times able to be met? Yes V No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes \_ No NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:

Page 1 of 1

17. Cooler Information Cooler No

1

Temp °C

5.5

Condition

Good

Seal Intact

Seal No

Seal Date

Signed By

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Turn-Around T	_ □ Standard	Project Name:	Yates	Project #:	0	1166	Project Manager:	Becky.	Sampler: He	# of Coolers.	Cooler Temp(including CF):	Container Type and #	402.Jar/1			X				Received by:	Received by:
Chain-of-Custody Record			5. Loop 250 W.	2016		- 0086	email or Fax#: Tom. Larson & G. H.D. Com	☐ Level 4 (Full Validation)	npliance			Sample Name	BH-113A	BH-121A	BH-123A	SW-17B				i.fa	by:
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May 06, 2022

BECKY HASKELL
GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/05/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



05/05/2022

Soil

#### Analytical Results For:

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

Received: 05/05/2022 Sampling Date:
Reported: 05/06/2022 Sampling Type:

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Applyand By MC

Project Location: EOG - ARTESIA NM

#### Sample ID: BHX - 2 A (H221896-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	3.70	
DRO >C10-C28*	200	10.0	05/06/2022	ND	193	96.3	200	4.40	
EXT DRO >C28-C36	35.6	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	95.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: BHX - 3 A (H221896-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	3.70	
DRO >C10-C28*	160	10.0	05/06/2022	ND	193	96.3	200	4.40	
EXT DRO >C28-C36	31.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	91.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.9	% 59.5-14	2						

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Analyzed By: MC\

Project Location: EOG - ARTESIA NM

ma/ka

#### Sample ID: SWX - 32 (H221896-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	801	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	136	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	89.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.2	% 59.5-14	2						

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#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022 Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SWX - 33 (H221896-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	269	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	61.1	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	84.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.9	% 59.5-14	2						

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with Sigh



#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022

Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 11228401 Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SW - 18 A (H221896-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	83.7 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.9	% 59.5-14	2						

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with Sigh



#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SW - 19 A (H221896-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	10						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	82.4	% 66.9-13	16						
Surrogate: 1-Chlorooctadecane	84.0	% 59.5-14	12						

#### Cardinal Laboratories

\*=Accredited Analyte

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#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022 Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 11228401 Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SW - 24 A (H221896-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.5	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 9/2/2022 9:24:33 AM



#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SW - 25 A (H221896-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	80.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.7	% 59.5-14	22						

#### Cardinal Laboratories

\*=Accredited Analyte

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#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022 Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SWX - 25 (H221896-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	82.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.8	% 59.5-14	2						

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#### Analytical Results For:

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

Received: 05/05/2022 Sampling Date: 05/05/2022

Reported: 05/06/2022 Sampling Type: Soil
Project Name: YATES AS FEE Sampling Condition: \*\* (

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Analyzed By: MC\

Project Location: EOG - ARTESIA NM

ma/ka

#### Sample ID: SWX - 26 (H221896-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	84.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.3	% 59.5-14	2						

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#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SWX - 27 (H221896-11)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	82.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.6	% 59.5-14	22						

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#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022 Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SWX - 28 (H221896-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	80.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.1	% 59.5-14	2						

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#### Analytical Results For:

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

Received: 05/05/2022 Sampling Date: 05/05/2022

Reported: 05/06/2022 Sampling Type: Soil
Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)

Project Number: 11228401 Sample Received By: Shalyn Rodriguez
Project Location: EOG - ARTESIA NM

Sample ID: SWX - 29 (H221896-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	80.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.9	% 59.5-14	2						

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#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Analyzed By: MC\

Project Location: EOG - ARTESIA NM

ma/ka

#### Sample ID: SWX - 30 (H221896-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	05/06/2022	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	84.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.2	% 59.5-14	2						

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#### Analytical Results For:

GHD SERVICES, INC. **BECKY HASKELL** 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received: 05/05/2022 Sampling Date: 05/05/2022 Reported: 05/06/2022 Sampling Type: Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 11228401 Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

#### Sample ID: SWX - 31 (H221896-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	< 0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	77.4 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.8 9	% 59.5-14	2						

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#### Analytical Results For:

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

Received: 05/05/2022 Sampling Date: 05/05/2022

Reported: 05/06/2022 Sampling Type: Soil
Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)

Project Number: 11228401 Sample Received By: Shalyn Rodriguez
Project Location: EOG - ARTESIA NM

Sample ID: SWX - 34 (H221896-16)

# Analyze By: MS\ Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene\* <0.050</td> 0.050 05/05/2022 ND 2.13 106 2.00 2.91 Toluene\* <0.050</td> 0.050 05/05/2022 ND 2.12 106 2.00 2.80

Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	< 0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID 102 % 69.9-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	

ND

05/06/2022

Surrogate: 1-Chlorooctane 74.9 % 66.9-136 Surrogate: 1-Chlorooctadecane 75.9 % 59.5-142

<10.0

10.0

EXT DRO >C28-C36

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough



#### Analytical Results For:

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

 Received:
 05/05/2022
 Sampling Date:
 05/05/2022

 Reported:
 05/06/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Applyzod By: MC\

Project Location: EOG - ARTESIA NM

ma/ka

#### Sample ID: SWX - 35 (H221896-17)

RTFY 8021R

% Recovery 106 106 104 107	2.00 2.00 2.00 2.00 6.00	2.91 2.80 3.06 3.34	Qualifier
106 104	2.00 2.00	2.80 3.06	
104	2.00	3.06	
107	6.00	3.34	
% Recovery	True Value QC	RPD	Qualifier
104	400	3.77	
% Recovery	True Value QC	RPD	Qualifier
107	200	15.4	
97.3	200	6.52	
_	107	107 200	107 200 15.4

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Mile Sough



### Analytical Results For:

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

Received: 05/05/2022 Sampling Date: 05/05/2022

Reported: 05/06/2022 Sampling Type: Soil
Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)

Project Number: 11228401 Sample Received By: Shalyn Rodriguez
Project Location: EOG - ARTESIA NM

### Sample ID: SWX - 36 (H221896-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTEX	<0.300	0.300	05/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/06/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	229	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	166	10.0	05/06/2022	ND					
Surrogate: 1-Chlorooctane	72.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.5	% 59.5-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

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Mile Single

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 9/2/2022 9:24:33 AM

Time: /600 Date: Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C (1 10 C Corrected Temp. °C U. 12

Sample Condition
Cool Intact
D Yes D Yes
No No

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: CJ HD		BILL TO			A	ANALYSIS REQUEST
Project Manager: Becky, Haskell @ GHT.	KELL @ GHT. com	P.O. #:		_		
Address: 2135. 5. Loop	250 W.	Company: EOC		_		
city: Midland	State: TX Zip: 79703	Attn: Chase-S-HIED EOG	Eos			
Phone #: 432-686-0086	Fax #:	Address:		_		
Project #: /122 8401	Project Owner: EOG	City:		_		
Project Name: Yates A5	Fee	State: Zip:		_		
Project Location: Artesia	MM	Phone #:		>		
Sampler Name: Heath. Boyd	Henth. Boyd @ COHO.com	Fax #:		57		
FOR LAB USE ONLY	MATRIX	ESERV.	SAMPLING	)14		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	BTEX TPH: 80	Chloride	
BHK-2A	×		1030	×	¥	
BHX-3A	x 11 2		1040	x	×	
3 5-445	C - x		1050	×	K	
C5-xmg	3 112		1100	×		
SW-18A	C 1 K		1125	X	K	
6 SW-192	2 - 2		1130	×	K	
7 Sw-24A	C 1 K		1140	×	¥	
452-MS 3	C1 k		1150	y ×	k	
32-xcs	C 1 x		1215	×	X	
16 SUX-26	611 6	B	0421	K		
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hed By	_	Control of the contro	Verbal Result:	ilt:    Yes	res I No A	Verbal Result: ☐ Yes ☐ No Add'I Phone #:
8	A 3	Paray	Ambar Larg	0000	SHO Com. 2	PARTY CONTROL OF SOME SACK COMING SHOULD SAN COM
Relinquished By:	Received By:	-	REMARKS:			

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C \( \( \lambda \) \( \lambda \) C \( \lambda \) \( \lambda \)

Sample Condition
Cool Intact

Yes Yes
No No

CHECKED BY:

Turnaround Time:

Standard

X

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: CHD	AHO :		BILL TO		ANALYSIS DECLIEST
Project Manag	Project Manager: Becky, Harker @ 640.	@ GHD: com			
Address: Z   35	35 S. Loop 250	0 ω.	Company: FOG		
City: Midland	ind	State: TX Zip: 79703	Attn: chase Suttle & Boks		
Phone #: 니궁	2200	Fax #:	Address:		
Project #: 1/228401		Project Owner: Eas,	City:		
Project Name:	Yates As	Fee	State: Zip:		
Project Location:	Artesia.	MM	#		
Sampler Name:	Heath. Bayle	SHO. CON	Fax #:	0	
FOR LAB USE ONLY			PRESERV. SAMPLING	5	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	BTEX TPH: 80 Chloride	LAIDTICLE
	SUX-27	χ.	3/5/22	7	
تو	82.XUS	x .		*	
T	b2-2mg	C - K	1510	× .	
14	SWK-30	C 1 K	0251	8	
T	SWK- 51	7 10	1330	7 7	
91	アペーメのひ	2 1 2	1 1340	x x	
Q	50x-26	3 - 2		x	
01	000	60	× 1400	x	
		101 8			
analyses, All claims includ service. In no event shall caffiliates or successors aris	and Damages. Cardinal's liability and client's e ding those for negligence and any other cause Cardinal be liable for incidental or consequent sing out of or related to the performance of se	y claim arising w eemed waived u without limitation rdinal, regardles	heither bassed in contract or forf, shall be limited to the amount paid by the client for incleas mode in writing and received by Cardinal within 30 days after completion of the business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries so of whether such claim is bassed upon any of the above stated reasons or otherwise.	If for the of the applicable sideries, envise.	
kelinquished By:	H	Time: 16 Co. Received By:	Verbal All Res	Verbal Result: □ Yes □ All Results are emailed. Plea アー・レー・この・シンティー・ロー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファ	Verbal Result: □ Yes □ No □ Add'l Phone #: // All Results are emailed. Please proyide Email address: Becky. これらちょ, Heath, ' i ***・いる・この・シ (テドウ・この ハー・ク・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・
Relinquished By:		Date: Received By:	REMARKS:	KS:	Gritting Cogresoures, Com
	=	Time:		2	MSM JASH

Thermometer ID #113 Correction Factor -0.5°C



May 09, 2022

BECKY HASKELL
GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/06/22 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 05/06/2022
 Sampling Date:
 05/06/2022

 Reported:
 05/09/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

### Sample ID: SW - 10 B (H221924-01)

BTEX 8021B	mg,	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	7.55	
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05	
Total BTEX	<0.300	0.300	05/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	05/07/2022	ND					
Surrogate: 1-Chlorooctane	73.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.8	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

 Received:
 05/06/2022
 Sampling Date:
 05/06/2022

 Reported:
 05/09/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

### Sample ID: SW - 11 A (H221924-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	7.55	
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05	
Total BTEX	<0.300	0.300	05/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	145	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	122	10.0	05/07/2022	ND					
Surrogate: 1-Chlorooctane	72.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.1	% 59.5-14	2						

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Celey D. Keene



### Analytical Results For:

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

 Received:
 05/06/2022
 Sampling Date:
 05/06/2022

 Reported:
 05/09/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Project Location: EOG - ARTESIA NM

### Sample ID: SW - 13 A (H221924-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	7.55	
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05	
Total BTEX	<0.300	0.300	05/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/07/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	10.8	10.0	05/07/2022	ND					
Surrogate: 1-Chlorooctane	71.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.2	% 59.5-14	12						

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Celey D. Keine



### Analytical Results For:

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

 Received:
 05/06/2022
 Sampling Date:
 05/06/2022

 Reported:
 05/09/2022
 Sampling Type:
 Soil

Project Name: YATES AS FEE Sampling Condition: \*\* (See Notes)
Project Number: 11228401 Sample Received By: Shalyn Rodriguez

Analyzed By: MC/

Project Location: EOG - ARTESIA NM

ma/ka

### Sample ID: SW - 14 A (H221924-04)

RTFY 8021R

B1EX 8021B	mg/	кg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	7.55	
Toluene*	<0.050	0.050	05/06/2022	ND	2.09	104	2.00	8.31	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	1.98	99.0	2.00	7.16	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.18	103	6.00	7.05	
Total BTEX	<0.300	0.300	05/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2022	ND	195	97.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	05/09/2022	ND	204	102	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	05/09/2022	ND					
Surrogate: 1-Chlorooctane	62.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	69.7	% 59.5-14	2						

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Celey D. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keene

Relinquished By:

Time: / 430 Date: 5/6/22

Received By

Date: Time:

Received By:

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes Yes

No No

Delivered By: (Circle One)

Observed Temp. °C 23, 3°C Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

Relinquished By:

rvice. In no event shall Cardinal be liable for incide

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	476			
Company Name: (5) H D		BILL TO	ANALYSIS REQUEST	1
roject Manager: Becky, Haskell @ SHD. Com	D. Com	P.O. #:		
Address: 2   35 5 (xxx 250 P).		Company: EOG		
	State: TK Zip: 79703	Attn: Chase Suttle @ Econ.		_
1 9200-98		Address:		
Project #: 1122 840   Project Owner: EOS	r. 606	City:		
As		State: Zip:	0	
Project Location: At 10 5: a . Was		Phone #:	5	
Sampler Name: Heath, Boyd @ 640. WM	Den	Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	3	_
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEK	
501-61	_ ×		* * * *	
	\ \ \ \ \ \	0111	× × ×	
20-12-A	7 , 7	0211	* * * * * * * * * * * * * * * * * * *	
4 50-144	C 1 ×	× 1130	* * *	
		etent or tot shall he limited to the amount paid by the client I	for the	L
PLEASE NOTE: Liability and Damages. Cardinals stooling and create stockers are completed of the analysis of the completed o	be deemed waived unless made in writing	ges. Cardinal's ladding and clients exclusive removy to any seminance gas. Cardinal within 30 days after completion of the applicable for nonlinence and any other causes whetherer shall be deemed whether duriess made in writing and received by Cardinal within 30 days after completion of the applicable for nonlinence and any other causes whetherer shall be deemed whether duriess made in writing and received by Cardinal within 30 days after completion of the applicable.	of the applicable	

All Results are emailed. Please provide Email address: Becky, Chase, Heath, Tom. Larson & GHD. com, Each, Coming Cothy, Com
Amble Griffin & EOGRESOWES, Com
REMARKS:



May 16, 2022

BECKY HASKELL
GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE, NM 87110

RE: YATES AS FEE

Enclosed are the results of analyses for samples received by the laboratory on 05/12/22 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 Project: YATES AS FEE
Project Number: 11228401

Reported: 16-May-22 12:18

ALBUQUERQUE NM, 87110

Project Manager: BECKY HASKELL

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 11 B	H222020-01	Soil	12-May-22 10:45	12-May-22 14:50
SWX - 37	H222020-02	Soil	12-May-22 10:50	12-May-22 14:50
BH - 14 B	H222020-03	Soil	12-May-22 10:55	12-May-22 14:50
BH - 124	H222020-04	Soil	12-May-22 11:00	12-May-22 14:50

05/16/22 - Client changed the sample ID on -01. This is the revised report and will replace the one sent on 05/13/22.

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Celey D. Keine



### Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Reported: 16-May-22 12:18

Fax To:

### SW - 11 B H222020-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2140		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	69.9	-140	2051205	MS/	12-May-22	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	1010		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	157		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctane			80.8 %	66.9	-136	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctadecane			100 %	59.5	-142	2051214	MS	13-May-22	8015B	

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Celey D. Keine



### Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200

Project Number: 11228401 ALBUQUERQUE NM, 87110

Project Manager: BECKY HASKELL

Project: YATES AS FEE

Fax To:

Reported: 16-May-22 12:18

### **SWX - 37** H222020-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	2880		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		99.4 %	69.9	-140	2051205	MS/	12-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	553		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	96.7		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctane			82.0 %	66.9	-136	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctadecane			96.4 %	59.5	-142	2051214	MS	13-May-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Reported: 16-May-22 12:18

Fax To:

### BH - 14 B H222020-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	
Volatile Organic Compounds l	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		99.6 %	69.9	-140	2051205	MS/	12-May-22	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	350		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	251		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctane			85.7 %	66.9	-136	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctadecane			86.2 %	59.5	-142	2051214	MS	13-May-22	8015B	

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### Analytical Results For:

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Reported: 16-May-22 12:18

Fax To:

### BH - 124 H222020-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	2051304	GM	13-May-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051205	MS/	12-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051205	MS/	12-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.8 %	69.9	-140	2051205	MS/	12-May-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
DRO >C10-C28*	194		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
EXT DRO >C28-C36	119		10.0	mg/kg	1	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctane			113 %	66.9	-136	2051214	MS	13-May-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	59.5	-142	2051214	MS	13-May-22	8015B	

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Celey D. Keine



### **Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Reported: 16-May-22 12:18

Fax To:

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

Austra	Result	Reporting Limit	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes
Batch 2051304 - 1:4 DI Water										
Blank (2051304-BLK1)				Prepared &	: Analyzed:	13-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2051304-BS1)				Prepared &	Analyzed:	13-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2051304-BSD1)				Prepared &	: Analyzed:	13-May-22				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Celey D. Keene



%REC

Limits

89.9-126

84.3-123

89.1-124

69.9-140

4.13

3.87

106

102

105

980

RPD

### Analytical Results For:

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

Analyte

m,p-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Spike

Level

Source

Result

%REC

Reported: 16-May-22 12:18

RPD

Limit

13.6

14.1

13.4

Notes

Fax To:

Reporting

Limit

Result

4.26

2.03

6.29

0.0490

0.100

0.050

0.150

mg/kg

mg/kg

mg/kg

mg/kg

4.00

2.00

6.00

0.0500

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Units

Blank (2051205-BLK1)				Prepared & Analy	yzed: 12-May-2	2			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500	100	69.9-140			
LCS (2051205-BS1)				Prepared & Analy	yzed: 12-May-2	2			
Benzene	2.08	0.050	mg/kg	2.00	104	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00	102	84.2-126			
Ethylbenzene	1.94	0.050	mg/kg	2.00	97.2	84.2-121			
m,p-Xylene	4.09	0.100	mg/kg	4.00	102	89.9-126			
o-Xylene	1.95	0.050	mg/kg	2.00	97.7	84.3-123			
Total Xylenes	6.04	0.150	mg/kg	6.00	101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500	97.2	69.9-140			
LCS Dup (2051205-BSD1)				Prepared & Analy	yzed: 12-May-2	2			
Benzene	2.16	0.050	mg/kg	2.00	108	83.4-122	3.87	12.6	
Toluene	2.14	0.050	mg/kg	2.00	107	84.2-126	4.81	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00	101	84.2-121	4.00	13.9	

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Celey D. Keine



%REC

Limits

81.5-127

66.9-136

59.5-142

135

149

RPD

### Analytical Results For:

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

Analyte

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: YATES AS FEE
Project Number: 11228401
Project Manager: BECKY HASKELL

Reported: 16-May-22 12:18

RPD

Limit

17.6

S-04

Notes

Fax To:

Reporting

Limit

Result

464

67.5

74.3

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Spike

Level

400

50.0

50.0

Source

Result

%REC

Blank (2051214-BLK1)				Prepared & Anal	yzed: 12-May-2	2			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0	114	66.9-136			
Surrogate: 1-Chlorooctadecane	60.2		mg/kg	50.0	120	59.5-142			
LCS (2051214-BS1)				Prepared & Anal	yzed: 12-May-2	2			
GRO C6-C10	218	10.0	mg/kg	200	109	78.5-128			
DRO >C10-C28	212	10.0	mg/kg	200	106	75.8-135			
Total TPH C6-C28	430	10.0	mg/kg	400	108	81.5-127			
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0	123	66.9-136			
Surrogate: 1-Chlorooctadecane	67.9		mg/kg	50.0	136	59.5-142			
LCS Dup (2051214-BSD1)				Prepared & Anal	yzed: 12-May-2	2			
GRO C6-C10	238	10.0	mg/kg	200	119	78.5-128	8.39	21.4	
DRO >C10-C28	226	10.0	mg/kg	200	113	75.8-135	6.68	17.9	

mg/kg

mg/kg

mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether success or any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 1/3 Corrected Temp. °C 20.8

Sample Condition
Cool Intact
Pes Yes
No No

CHECKED BY: (Initials

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Time: Date: Time: 1450

Received By:

Date:

Received By:

22/11/5

intal damages, including without limitation, business inte

ions, loss of use, or loss of profits incurred by client, its subsidiaries,

Verbal Result:

□ Yes

ONO

Add'I Phone #:

"Becky Heath, Chase"

All Results are emailed. Please provide Email address: "bんどり てつふしんくりの色 台 針込 とりか , こんたんのふっつ 色 ら 代り. んりか

Amber - Griffin @ EDG Resources, COM REMARKS:

Relinquished By:

rice. In no event shall Cardinal be liable

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



### (575) 393-2326 FAX (575) 393-2476

	ı				I	l		
Company Name: (7 )			BILL TO					ANALYSIS REQUEST
Project Manager: Becky, Hasker ( @ C H つ .		(000	P.O. #:		_			
Address: 2135 5. Loop 750 (J.		(8)	Company: としら					
√ State: 77×	Zip:	Zip: 79703	Attn: Chase-SwHIE@ EDG	@ 60C				
Phone #: 432 - 686 - 0086 Fax #:			Address:					
Project #: 1177 8401 Project Owner:			City:					
Project Name: Yates #5 Fee			State: Zip:					
Project Location: Artesia, NM			Phone #:	1				
Sampler Name: Hash, Boyd @ GHD. LOW			Fax #:					
		MATRIX	PRESERV. SAMPLING		5			
		ATER	:		:3019	X	ide	
Habobo i	(G)RAB OR	# CONTAIN GROUNDW WASTEWA SOIL OIL SLUDGE	OTHER: ACID/BASE ICE / COOL OTHER: DATE	TIME	TPH	BTE	BTE	
SW-1413 TO 5/16/22	$\overline{}$		-	_	K	¥	¥	
D SWX-37	$\cap$	×	1 10	050	×	Y	K	
3 BH-14B	0	y	10	1055	X	K	K	
4 BH-124	3	8	χ.	+	K	x	عر	
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PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	claim	arising whether based in contrac	t or tort, shall be limited to the amount paid by	the client for the	-	L	-	
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable	emed v	waived unless made in writing an	d received by Cardinal within 30 days after co	impletion of the ap	plicable			

Thermometer ID #113
Correction Factor -0.5°C

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

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

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

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

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

CONDITIONS

Action 107934

### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	107934
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By		Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.	9/2/2022