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	nAPP2112053741
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude <u>32.42609</u>

Longitude -104.54400

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Brannigan ANF Federal Battery	Site Type Battery
Date Release Discovered 04/27/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	06	22S	24E	Eddy

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Unkno line fr	own historical release, no known volume c om the battery during P&A activities.	or date. Discovered while removing a flow

Page 2

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

Initial Response

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

 \checkmark The source of the release has been stopped.

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

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle

Signature: Chan Settle

Title: Re	Safety	& Environmental Sr
-----------	--------	--------------------

email: Chase_Settle@eogresources.com

OCD Only

Received by:

Date: _____

Date: 04/30/2021

Telephone: 575-748-1471

Released to Imaging: 8/25/2021 9:17:46 AM

Received by OCD: 7/21/2021 2:48:33 PM Form C-141 State of New Mexico

Oil Conservation Division

_		Page 3 of	52
	Incident ID	nAPP2112053741	
ſ	District RP		
ſ	Facility ID		
ſ	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?	unknown (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 📈 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 📈 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 📈 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗹 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔽 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 📈 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- $\overline{\nabla}$ Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Z Topographic/Aerial maps
- Laboratory data including chain of custody

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

	vico		Page 4
		Incident ID	nAPP2112053741
ge 4 Oil Conservation D	1V1S10N	District RP	
		Facility ID	
		Application ID	
Printed Name: Chase Settle Signature: Chase_Settle@eogresources.com	Title: <u>Rep Safet</u> Date: <u>07/20/20</u>	the operator of liability sl face water, human health pliance with any other for the & Environmenta 21 748-1471	I Sr
OCD Only			
Received by:	Date:		

Oil Conservation Division

Incident ID	nAPP2112053741
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

 \checkmark Description of remediation activities

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

Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: The Sittle

email: Chase_Settle@eogresources.com

Date: 07/20/2021

Telephone: 575-748-1471

OCD Only

Received by: Chad Hensley

Date: 08/25/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date: (08/25/2021
Printed Name: Chad Hensley	Title: <u> </u>	Environmental Specialist Advanced

Page 6

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



Our ref: 11228320

July 20, 2021

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

Re: Site Characterization and Closure Report Brannigan ANF Federal #5 Battery-Pipeline Release Site EOG Resources Inc. nAPP2112053741 D-06-22S-24E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of site characterization delineation, sampling, analyses, and assessment activities in the affected areas at the EOG Brannigan Federal Battery-Pipeline Release Site (Site). The Site is located in Unit Letter D Section 6 of Township 22 South and Range 24 East in Eddy County, New Mexico. The GPS coordinates for the releases site are 32.42609 N latitude and 104.54400 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on April 30, 2021. The C-141 stated that no known volume or date could be assigned to this unknown historical release. The potential release area was discovered while removing a flow line from the battery during EOG plugging and abandonment activities associated with this location. An area approximately 20 feet by 20 feet around the buried flow line appeared to be discolored and after discussions between field personnel and environmental staff – EOG made the decision to go ahead and file a C-141 for this suspected location

The Initial Form C-141, Site Assessment/Characterization and Closure portions of Form C-141 for Incident Number nAPP2112053741 are attached to the front of this report.

→ The Power of Commitment

3. Groundwater and Site Characterization

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

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area of high karst potential, so the release must be treated as if it occurred less than 50 ft. from groundwater. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. No groundwater data could be located within one-half mile of the Site. The Site characterization documentation (Karst Potential, FEMA, USGS Water Resources, NMOSE POD and Wetlands maps) are provided in Attachment B. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
High Karst Potential Area	Unknown, Treated as <50 ft.

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

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	N/A
Benzene	10mg/kg
BTEX	50 mg/kg

4. Soil Assessment Sampling Summary and Findings

On April 27, 2021 GHD Services Inc. (GHD) and EOG's contractor BDS Services, LLC (BDS), on behalf of EOG, excavated a test pit (TP-6) and conducted a soil sampling event at the Site. One test pit bottom sample was collected and analyzed from 3.5 feet below ground surface (bgs). On May 18 and June 1, 2021, four hand auger sampling locations were placed outside of TP-6 and around a 20'x20' approximate area. The hand auger samples were field screened using a photoionization detector (PID) and chloride test strips. Hand auger sample depths ranged from 1.17' to 2'. A total of at five (5) samples were taken from five (5) locations at the Brannigan Battery-Pipeline site for soil assessment purposes.

All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015D MOD, and chloride by EPA Method 300 by Hall Environmental Analytical Laboratory in Albuquerque, New Mexico. None of the five samples exhibited concentrations in exceedance of Closure Criteria for Soil Impacted by a Release (NMAC 19.15.29.12) using the most stringent scenario – depth to groundwater less than 50 feet bgs. No remedial actions were indicated based on the soils assessment sample results. Analytical data is summarized in Table 1 and on Figure 2, and certified Laboratory Analytical Reports are provided in Attachment C.

➔ The Power of Commitment

2

5. Closure Request - OCD Incident Number nAPP2112053741

Release notification, site characterization, and soil assessment activities for this incident have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for Incident Number nAPP2112053741.

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

Sincerely,

GHD

Reberra Haskell

Becky Haskell Senior Project Manager

BH/mss/1

Thomas Clayon

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

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

cc: Chase Settles

→ The Power of Commitment

3

Received by OCD: 7/21/2021 2:48:33 PM

Figures

•







EOG RESOURCES EDDY COUNTY, NEW MEXICO BRANNIGAN ANF FEDERAL #5 PIPELINE Project No. 11228320 Date May 2021

SITE LOCATION MAP

Data Source: USGS 7.5 Minute Quad "Martha Creek and Azotea Peak, New Mexico" Lat/Long: 32.425787° North, 104.544598° West

2:48:33 PM

7/21/2021

Received by OCD:



Plot Date: 23 June 2021 9:44 AM

Data Source: Image © 2021 Google - Imagery Date: December 29, 2019 Lat/Long: 32.425787° North, 104.544598° West

Received by OCD: 7/21/2021 2:48:33 PM

Tables

•

Table 1 Summary of Soil Analytical Data Brannigan ANF Federal 5 Pipeline Area EOG Resources Eddy County, New Mexico

										ТРН			
Some la ID	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride	
Sample ID	Date (reet (mg/Kg) (m	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)			
		bgs)		Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
				10 mg/Kg				50 mg/Kg				100 mg/Kg	600 mg/Kg
	Initial Assessment Samples - Pipeline Area												
TP-6	4/27/21	3.5	<0.019	<0.038	<0.038	0.18	0.18	59	22	<43	81	<61	
HA-1	5/18/21	1.33	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.8	<44	<44	66	
HA-2	5/18/21	1.17	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	9.9	<48	9.9	94	
HA-3	5/18/21	1.17	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	530	
HA-4	6/1/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	280	

Notes:

5. TPH analyses by EPA Method SW 8015 Mod.

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

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

 1. Values reported in mg/kg
 5. 1

 2. < = Value Less than Reporting Limit (RL)</td>
 6. 0

 3. Bold Indicates Analyte Detected
 7. 7

 4 BTEX analyses by EPA Method SW 8021B.
 7. 7

11228320 - Brannigan ANF Federal #5 Battery - Pipeline

Page 1 of 1

Released to Imaging: 8/25/2021 9:17:46 AM

Attachment A Site Characterization Documentation

.

Brannigan ANF Federal #5 Battery Pipeline

Karst Potential Map



Brannigan ANF Federal #5 Battery Pipeline

Grange & Inaging: 8/25/2021 9:17:46 AM

2 mi

N

Brannigan ANF Fed Pipeline





0 Active

New Mexico State Trust Lands

Subsurface Estate



SiteBoundaries



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

> Printed from Public Web Map Unofficial Map from OSE POD Locations Web Application

Released to Imaging: 8/25/2021 9:17:46 AM



7/21/2021 2.48.22 DM Received by OCD

U.S. Fish and Wildlife Service

National Wetlands Inventory

Brannigan ANF Federal Battery-Pipeline

Page 18 of 52



Lake

Other

Riverine

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

July 6, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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.

Released to Imaging: 8/25/2021 9:17:46 AM

Received by OCD: 7/21/2021 2:48:33, PM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

Page 19 of 52



Releasea to Imaging: 8/25/2021 9997:46 AM 1,500 2.000

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

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

.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

April 29, 2021

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

RE: Brannigan ANF Federal 5 Battery

OrderNo.: 2104B53

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/28/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Received	l by	OCD:	7/21/20	21 2:48:3	3 PM
----------	------	------	---------	-----------	------

Surr: DNOP

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

EPA METHOD 8260B: VOLATILES SHORT LIST

4/28/2021 10:57:16 AM 59671

4/28/2021 12:11:44 PM D77007

Analyst: BRM

Analytical Report Lab Order: 2104B53

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 4/29/2021				
CLIENT: Project:	GHD Brannigan ANF Federal	5 Battery		L	ab O	Order: 210	4B53	
Lab ID:	2104B53-001		Coll	ection Date	: 4/2	27/2021 8:45:00	AM	
Client Sample ID: 1P1 Matrix: MEOH (S				EOH (SOIL)				
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Ba	itch ID
EPA METHO	D 300.0: ANIONS					A	nalyst	VP
Chloride		180	60	mg/Kg	20	4/28/2021 11:32	:21 AM	59670
EPA METHO	D 8015D MOD: GASOLINE F	ANGE				А	nalyst:	BRM
Gasoline Ran	ige Organics (GRO)	ND	3.8	mg/Kg	1	4/28/2021 12:11	:44 PM	C77007
Surr: BFB		93.5	70-130	%Rec	1	4/28/2021 12:11	:44 PM	C77007
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				A	nalyst:	SB
Diesel Range	Organics (DRO)	38	9.4	mg/Kg	1	4/28/2021 10:57	:16 AM	59671
Motor Oil Rar	nge Organics (MRO)	ND	47	mg/Kg	1	4/28/2021 10:57	:16 AM	59671

119

ND

ND

ND

ND

105

104

112

101

70-130

0.019

0.038

0.038

0.076

70-130

70-130

70-130

70-130

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

1

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

Qualifiers:

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

В

Page 1 of 11

Released to Imaging: 8/25/2021 9:17:46 AM

· ·		

Hall Environmental Analysis Laboratory, Inc.

Received by OCD: 7/21/2021 2:48:33 PM

Analytical Report Lab Order: 2104B53

	ibee
Date Reported:	4/29/2021

CLIENT:	GHD Brannigan ANF Federal 5	Battery			L	.ab C)rder: 2104	B53	
Lab ID:	2104B53-002		C	ollecti	on Date	: 4/2	27/2021 8:50:00 A	M	
Client Sample ID:	TP2				Matrix	: Ml	EOH (SOIL)		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 30	0.0: ANIONS						Ar	alyst:	VP
Chloride		ND	61		mg/Kg	20	4/28/2021 11:44:4	i5 AM	59670
EPA METHOD 80	15D MOD: GASOLINE R	ANGE					An	alyst:	BRM
Gasoline Range O	rganics (GRO)	ND	6.1		mg/Kg	1	4/28/2021 12:38:3	38 PM	C77007
Surr: BFB		95.8	70-130		%Rec	1	4/28/2021 12:38:3	38 PM	C77007
EPA METHOD 80	15M/D: DIESEL RANGE	ORGANICS					An	alyst:	SB
Diesel Range Orga	anics (DRO)	100	45		mg/Kg	5	4/28/2021 12:40:3	30 PM	59671
Motor Oil Range O	organics (MRO)	340	230		mg/Kg	5	4/28/2021 12:40:3	30 PM	59671
Surr: DNOP		0	70-130	S	%Rec	5	4/28/2021 12:40:3	30 PM	59671
EPA METHOD 82	60B: VOLATILES SHOR	T LIST					Ar	alyst:	BRM
Benzene		ND	0.030		mg/Kg	1	4/28/2021 12:38:3	38 PM	D77007
Toluene		ND	0.061		mg/Kg	1	4/28/2021 12:38:3	38 PM	D77007
Ethylbenzene		ND	0.061		mg/Kg	1	4/28/2021 12:38:3	38 PM	D77007
Xylenes, Total		ND	0.12		mg/Kg	1	4/28/2021 12:38:3	38 PM	D77007
Surr: 1,2-Dichlo	roethane-d4	107	70-130		%Rec	1	4/28/2021 12:38:3	38 PM	D77007
Surr: 4-Bromoflu	uorobenzene	107	70-130		%Rec	1	4/28/2021 12:38:3	38 PM	D77007
Surr: Dibromoflu	uoromethane	115	70-130		%Rec	1	4/28/2021 12:38:3	38 PM	D77007
Surr: Toluene-da	8	104	70-130		%Rec	1	4/28/2021 12:38:3	38 PM	D77007

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded

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

% Recovery outside of range due to dilution or matrix S

Value above quantitation range Е

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not RL Reporting Limit Sample pH Not In Range

в

Page 2 of 11

.

*

Received by OCD: 7/21/2021 2:48	1:33	PM
--	------	----

Hall Environmental Analysis Laboratory, Inc.						Analytical Report Lab Order: 2104B53 Date Reported: 4/29/2021				
CLIENT:	GHD			L	ab C	Order: 2104B53				
Project:	Brannigan ANF Federal 5	Battery								
Lab ID:	2104B53-003		C	Collection Date	: 4/2	27/2021 8:55:00 AM				
Client Sample	e ID: TP3			Matrix	: M	EOH (SOIL)				
Analyses		Result	RL	Qual Units	DF	Date Analyzed Batch	ID			
EPA METHO	D 300.0: ANIONS					Analyst: VP				
Chloride		1100	61	mg/Kg	20	4/28/2021 11:57:09 AM 596	70			
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Analyst: BR	М			
Gasoline Rar	nge Organics (GRO)	4.7	4.6	mg/Kg	1	4/28/2021 1:05:33 PM C77	′007			
Surr: BFB		102	70-130	%Rec	1	4/28/2021 1:05:33 PM C77	'007			
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB				
Diesel Range	e Organics (DRO)	62	8.8	mg/Kg	1	4/28/2021 11:06:42 AM 596	71			
Motor Oil Rai	nge Organics (MRO)	100	44	mg/Kg	1	4/28/2021 11:06:42 AM 596	71			
Surr: DNO	P	114	70-130	%Rec	1	4/28/2021 11:06:42 AM 596	71			
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analyst: BR	М			
Benzene		ND	0.023	mg/Kg	1	4/28/2021 1:05:33 PM D77	'007			
Toluene		ND	0.046	mg/Kg	1	4/28/2021 1:05:33 PM D77	'007			
Ethylbenzene	e	ND	0.046	mg/Kg	1	4/28/2021 1:05:33 PM D77	'007			
Xylenes, Tota	al	ND	0.093	mg/Kg	1	4/28/2021 1:05:33 PM D77	'007			
Surr: 1,2-D	Dichloroethane-d4	105	70-130	%Rec	1	4/28/2021 1:05:33 PM D77	'007			
Surr: 4-Bro	omofluorobenzene	106	70-130	%Rec	1	4/28/2021 1:05:33 PM D77	'007			

112

109

70-130

70-130

%Rec

%Rec

1

1

4/28/2021 1:05:33 PM

4/28/2021 1:05:33 PM

D77007

D77007

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

Qualifiers:

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 3 of 11

Hall Environmental Analysis Laboratory, Inc.	

Page 25 of 52

Lab Order:	2104B53

Date Reported: 4/29/2021

Project: Brannigan ANF Federa	al 5 Battery						
Lab ID: 2104B53-004		C	ollect	ion Date	: 4/2	27/2021 9:00:00 A	М
Client Sample ID: TP4				Matrix	: M	EOH (SOIL)	
Analyses	Result	RL	Qua	l Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Ana	alyst: VP
Chloride	63	60		mg/Kg	20	4/28/2021 12:09:34	4 PM 59670
EPA METHOD 8015D MOD: GASOLINE	RANGE					Ana	alyst: BRM
Gasoline Range Organics (GRO)	270	23		mg/Kg	5	4/28/2021 1:32:24	PM C77007
Surr: BFB	118	70-130		%Rec	5	4/28/2021 1:32:24	PM C77007
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Ana	alyst: SB
Diesel Range Organics (DRO)	2600	83		mg/Kg	10	4/28/2021 11:13:1	7 AM 59671
Motor Oil Range Organics (MRO)	1000	410		mg/Kg	10	4/28/2021 11:13:1	7 AM 59671
Surr: DNOP	0	70-130	S	%Rec	10	4/28/2021 11:13:1	7 AM 59671
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					An	alyst: BRM
Benzene	ND	0.12	D	mg/Kg	5	4/28/2021 1:32:24	PM D77007
Toluene	ND	0.23	D	mg/Kg	5	4/28/2021 1:32:24	PM D77007
Ethylbenzene	ND	0.23	D	mg/Kg	5	4/28/2021 1:32:24	PM D77007
Xylenes, Total	ND	0.46	D	mg/Kg	5	4/28/2021 1:32:24	PM D77007
Surr: 1,2-Dichloroethane-d4	109	70-130	D	%Rec	5	4/28/2021 1:32:24	PM D77007
Surr: 4-Bromofluorobenzene	129	70-130	D	%Rec	5	4/28/2021 1:32:24	PM D77007
Surr: Dibromofluoromethane	117	70-130	D	%Rec	5	4/28/2021 1:32:24	PM D77007
Surr: Toluene-d8	107	70-130	D	%Rec	5	4/28/2021 1:32:24	PM D77007

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

Qualifiers:

CLIENT:

GHD

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

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 4 of 11

Hall Envi	ronmental Analysis	Laboratory,	Inc.			A L D	ab Order: 2 ate Reporte	Report 104B53 d: 4/29/20	021
CLIENT: Project:	GHD Brannigan ANF Federal 5	Battery			L	ab O	order:	2104B5	3
Lab ID:	2104B53-005		C	ollecti	ion Date	: 4/2	7/2021 9:0	5:00 AM	
Client Sample	e ID: TP5				Matrix	: ME	EOH (SOII	.)	
Analyses		Result	RL	Qual	Units	DF	Date Ana	lyzed	Batch ID
EPA METHO	D 300.0: ANIONS							Analy	st: VP
Chloride		230	60		mg/Kg	20	4/28/2021	12:21:59 P	M 59670
EPA METHO	D 8015D MOD: GASOLINE R	ANGE						Analy	st: BRM
Gasoline Rar	nge Organics (GRO)	170	4.7		mg/Kg	1	4/28/2021	1:59:15 PM	1 C7700
Surr: BFB		179	70-130	S	%Rec	1	4/28/2021	1:59:15 PM	1 C7700
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS						Analy	st: SB

1500

1200

0

ND

ND

ND

0.58

107

190

115

117

95

480

S

S

70-130

0.023

0.047

0.047

0.094

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

10

10

10

1

1

1

1

1

1

1

1

Qualifiers:

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

В

Page 5 of 11

VP 59670 BRM C77007 C77007 SB

4/28/2021 12:27:42 PM 59671

4/28/2021 12:27:42 PM 59671

4/28/2021 12:27:42 PM 59671

4/28/2021 1:59:15 PM

Analyst: BRM

D77007

D77007

D77007

D77007

D77007

D77007

D77007

D77007

Received by OCD: 7/21/2021 2:48:33 PM

Diesel Range Organics (DRO)

Surr: DNOP

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

EPA METHOD 8260B: VOLATILES SHORT LIST

Received by	v OCD:	7/21/2021	2:48:33 PM	
-------------	--------	-----------	------------	--

Surr: DNOP

Surr: Toluene-d8

C77007 C77007

D77007

D77007

D77007

D77007

D77007

D77007

D77007

D77007

4/28/2021 11:16:09 AM 59671

4/28/2021 2:26:05 PM

Analyst: BRM

Analytical Report Lab Order: 2104B53

Hall Envir	onmental Analysis	ıc.	Date Reported: 4/29/2						
CLIENT:	GHD			L	ab O	rder:	2104B5	53	
Project:	Brannigan ANF Federal	5 Battery							
Lab ID:	2104B53-006		Co	llection Date	: 4/2	7/2021 12	:15:00 AI	M	
Client Sample	ID: TP6			Matrix	: MI	EOH (SOII	L)		
Analyses		Result	RL (Qual Units	DF	Date Ana	lyzed	Batch I	D
EPA METHOD) 300.0: ANIONS						Analy	/st: VP	
Chloride		ND	61	mg/Kg	20	4/28/2021	12:59:12	PM 596	70
EPA METHOD	8015D MOD: GASOLINE	RANGE					Analy	/st: BRI	М
Gasoline Rang	ge Organics (GRO)	59	3.8	mg/Kg	1	4/28/2021	2:26:05 P	M C77	00
Surr: BFB		104	70-130	%Rec	1	4/28/2021	2:26:05 P	M C77	00
EPA METHOD	8015M/D: DIESEL RANGI	E ORGANICS					Analy	/st: SB	
Diesel Range	Organics (DRO)	22	8.5	mg/Kg	1	4/28/2021	11:16:09	AM 596	71
Motor Oil Rang	ge Organics (MRO)	ND	43	mg/Kg	1	4/28/2021	11:16:09 /	AM 596	71

110

107

70-130

0.019

0.038

0.038

0.077

70-130

70-130

70-130

70-130

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

1

EPA METHOD 8260B: VOLATILES SHORT LIST Benzene ND Toluene ND ND Ethylbenzene Xylenes, Total 0.18 Surr: 1,2-Dichloroethane-d4 108 Surr: 4-Bromofluorobenzene 115 Surr: Dibromofluoromethane 116

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

RL Reporting Limit

В

Page 6 of 11

w w	0#:	2104B53
Hall Environmental Analysis Laboratory, Inc.		29-Apr-21

Client:	GHD										
Project:	Brann	igan ANF Fed	leral 5 l	Battery							
Sample ID:	MB-59670	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 59	670	F	RunNo: 7	7001				
Prep Date:	4/28/2021	Analysis D	ate: 4/	28/2021	S	SeqNo: 27	729918	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-59670	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 59	670	F	RunNo: 7	7001				
Prep Date:	4/28/2021	Analysis D	ate: 4/	28/2021	S	SeqNo: 27	729919	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.2	90	110			

Qualifiers:

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

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

Page 7 of 11

QC SUMMARY REPORT Η

Page	<i>29</i>	of 52	
------	-----------	-------	--

QUDU.								
Hall Env	vironmental Analysis Laboratory, Inc.	29- Apr-2	21					
Client:	GHD							

Project: Brannig	an ANF Federal 5 Battery		
Sample ID: MB-59671	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 59671	RunNo: 77009	
Prep Date: 4/28/2021	Analysis Date: 4/28/2021	SeqNo: 2729666	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	88.9 70	130
Sample ID: LCS-59671	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 59671	RunNo: 77009	
Prep Date: 4/28/2021	Analysis Date: 4/28/2021	SeqNo: 2729667	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	40 10 50.00	0 79.8 68.9	141
Surr: DNOP	4.2 5.000	85.0 70	130
Sample ID: MB-59659	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 59659	RunNo: 77011	
Prep Date: 4/27/2021	Analysis Date: 4/28/2021	SeqNo: 2730655	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.00	113 70	130
Sample ID: LCS-59659	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 59659	RunNo: 77011	
Prep Date: 4/27/2021	Analysis Date: 4/28/2021	SeqNo: 2730657	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.9 5.000	119 70	130

Qualifiers:

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

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

.

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2104B53
	20 4 21

29-Apr-21

Client: C Project: E	GHD Brannigan	ANF Fee	deral 5	Battery								
Sample ID: 100ng Ic:	s	SampT	Гуре: L(cs	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		1
Client ID: LCSS		Batch ID: D77007			F	RunNo: 7	7007					
Prep Date:		Analysis E	Date: 4	/28/2021	S	SeqNo: 2	729716	Units: mg/k	۲g			
Analyte		Result	PQI	SPK value	SPK Ref Val	%RFC	l owl imit	- Highl imit	- %RPD	RPDI imit	Qual	
Benzene		1.1	0.025	1.000	0	107	70	130	, or a 2			
Toluene		0.97	0.050	1.000	0	96.8	70	130				
Surr: 1.2-Dichloroethane	-d4	0.52		0.5000		104	70	130				
Surr: 4-Bromofluorobenz	ene	0.52		0.5000		103	70	130				
Surr: Dibromofluorometh	ane	0.54		0.5000		107	70	130				
Surr: Toluene-d8		0.50		0.5000		100	70	130				
Sample ID: mb	ample ID: mb SampType: MBLK			Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		٦	
Client ID: PBS		Batc	h ID: D 7	77007	F	RunNo: 7	7007					
Prep Date:		Analysis E	Date: 4	/28/2021	5	SeqNo: 2	729721	Units: mg/k	٤g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		ND	0.025									
Toluene		ND	0.050									
Ethylbenzene		ND	0.050									
Xylenes, Total		ND	0.10									
Surr: 1,2-Dichloroethane	-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenz	ene	0.50		0.5000		101	70	130				
Surr: Dibromofluorometh	ane	0.51		0.5000		102	70	130				
Surr: Toluene-d8		0.49		0.5000		98.9	70	130				
Sample ID: Ics-59658	B	SampT	Гуре: L(cs	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: LCSS		Batc	h ID: 59	658	F	RunNo: 7	7007					
Prep Date: 4/27/202	21	Analysis E	Date: 4	/28/2021	S	SeqNo: 2	730200	Units: %Re	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane	-d4	0.53		0.5000		106	70	130				
Surr: 4-Bromofluorobenz	ene	0.50		0.5000		101	70	130				
Surr: Dibromofluorometh	ane	0.56		0.5000		112	70	130				
Surr: Toluene-d8		0.51		0.5000		101	70	130				
Sample ID: mb-5965	8	SampT	Гуре: М	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: PBS		Batcl	h ID: 59	658	F	RunNo: 7	7007					
Prep Date: 4/27/202	21	Analysis E	Date: 4	/28/2021	S	SeqNo: 2	730201	Units: %Re	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane	-d4	0.55		0.5000		111	70	130				
Surr: 4-Bromofluorobenz	ene	0.52		0.5000		104	70	130				
Surr: Dibromofluorometh	ane	0.57		0.5000		113	70	130				
Surr: Toluene-d8		0.49		0.5000		98.8	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

S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

B Analyte detected in the associated Method Blank

GHD

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2104B53
	29-Apr-21

Client:

ery

Sample ID: 2104B53-002A MS	SampType: MS			Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: TP2	Batcl	h ID: D7	7007	F	RunNo: 77007					
Prep Date:	Analysis E	Date: 4/2	28/2021	S	SeqNo: 2	730317	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	70	130			
Toluene	0.99	0.050	1.000	0	99.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.52		0.5000		105	70	130			
Sample ID: 2104B53-002A MS	D Samp1	Гуре: МS	D	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Sample ID: 2104B53-002A MS Client ID: TP2	D SampT Batcl	Гуре: МS h ID: D7	6D 7007	Tes F	tCode: El	PA Method 7007	8260B: Volat	iles Short	List	
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date:	D SampT Batcl Analysis D	Гуре: MS h ID: D7 Date: 4/	5D 7007 28/2021	Tes F S	tCode: El RunNo: 7 SeqNo: 2	PA Method 7007 730321	8260B: Volat Units: mg/K	tiles Short	List	
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte	D SampT Batcl Analysis I Result	Гуре: MS h ID: D7 Date: 4/ 2 PQL	5 D 7007 28/2021 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 7 SeqNo: 2 %REC	PA Method 7007 730321 LowLimit	8260B: Volat Units: mg/k HighLimit	tiles Short Sg %RPD	List RPDLimit	Qual
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte Benzene	D SampT Batcl Analysis I Result 1.1	Type: MS h ID: D7 Date: 4/ PQL 0.025	5D 7007 28/2021 SPK value 1.000	Tes F S SPK Ref Val 0	tCode: El RunNo: 7 SeqNo: 2 %REC 109	PA Method 7007 730321 LowLimit 70	8260B: Volat Units: mg/K HighLimit 130	tiles Short Sg %RPD 1.54	List RPDLimit 20	Qual
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte Benzene Toluene	D SampT Batcl Analysis E Result 1.1 0.96	Type: MS h ID: D7 Date: 4 /2 PQL 0.025 0.050	5D 7007 28/2021 SPK value 1.000 1.000	Tes F SPK Ref Val 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 109 96.2	PA Method 7007 730321 LowLimit 70 70	8260B: Volat Units: mg/K HighLimit 130 130	Sg %RPD 1.54 2.94	List RPDLimit 20 20	Qual
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4	D SampT Batcl Analysis E Result 1.1 0.96 0.50	Type: MS h ID: D7 Date: 4 /2 PQL 0.025 0.050	5D 7007 28/2021 SPK value 1.000 1.000 0.5000	Tes F SPK Ref Val 0 0	tCode: Ef RunNo: 7 SeqNo: 2 <u>%REC</u> 109 96.2 101	PA Method 7007 730321 LowLimit 70 70 70 70	8260B: Volat Units: mg/k HighLimit 130 130 130	Sg %RPD 1.54 2.94 0	List RPDLimit 20 20 0	Qual
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	D SampT Batcl Analysis E Result 1.1 0.96 0.50 0.53	Type: MS h ID: D7 Date: 4 /2 0.025 0.050	5D 7007 28/2021 SPK value 1.000 1.000 0.5000 0.5000	Tes F SPK Ref Val 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 109 96.2 101 107	PA Method 7007 730321 LowLimit 70 70 70 70 70 70	8260B: Volat Units: mg/k HighLimit 130 130 130 130	illes Short 5g <u>%RPD</u> 1.54 2.94 0 0	List RPDLimit 20 20 0 0 0	Qual
Sample ID: 2104B53-002A MS Client ID: TP2 Prep Date: Analyte Benzene Toluene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	D Samp Batcl Analysis E Result 1.1 0.96 0.50 0.53 0.57	Гуре: MS h ID: D7 Date: 4/ PQL 0.025 0.050	5D 7007 28/2021 SPK value 1.000 1.000 0.5000 0.5000 0.5000	Tes F S SPK Ref Val 0 0	tCode: El RunNo: 7 SeqNo: 2 %REC 109 96.2 101 107 114	PA Method 7007 730321 LowLimit 70 70 70 70 70 70 70 70	8260B: Volat Units: mg/k HighLimit 130 130 130 130 130	Sg %RPD 1.54 2.94 0 0 0 0	List RPDLimit 20 20 0 0 0 0 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
- 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 10 of 11

29-Apr-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:	2104B53
sis Laboratory, Inc.		29-Apr-21

Client: Project:	GHD Brannigan ANF F	ederal 5 Battery	7				
Sample ID: 2.5ug	gro Ics Sam	pType: LCS	Tes	stCode: EPA Method	l 8015D Mod: Gasolir	ne Range	
Client ID: LCSS	Bat	tch ID: C77007	I	RunNo: 77007			
Prep Date:	Analysis	Date: 4/28/2021	1 :	SeqNo: 2729710	Units: mg/Kg		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Gasoline Range Organ Surr: BFB	ics (GRO) 24 480	5.0 2 5	5.00 0 00.0	94.47095.670	130 130		
Sample ID: mb	Sam	pType: MBLK	Tes	stCode: EPA Method	l 8015D Mod: Gasolir	ne Range	
Client ID: PBS	Bat	tch ID: C77007	I	RunNo: 77007			
Prep Date:	Analysis	Date: 4/28/2021	1 :	SeqNo: 2729715	Units: mg/Kg		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Gasoline Range Organ Surr: BFB	ics (GRO) ND 470	5.0 5	00.0	95.0 70	130		
Sample ID: Ics-59	658 Sam	pType: LCS	Tes	stCode: EPA Method	l 8015D Mod: Gasolir	ne Range	
Client ID: LCSS	Bat	tch ID: 59658	I	RunNo: 77007			
Prep Date: 4/27	2021 Analysis	Date: 4/28/2021	1 :	SeqNo: 2730182	Units: %Rec		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Surr: BFB	460	5	00.0	92.1 70	130		
Sample ID: mb-59	658 Sam	pType: MBLK	Tes	stCode: EPA Method	l 8015D Mod: Gasolir	ne Range	
Client ID: PBS	Bat	tch ID: 59658	I	RunNo: 77007			
Prep Date: 4/27	2021 Analysis	Date: 4/28/2021	1 :	SeqNo: 2730183	Units: %Rec		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Surr: BFB	470	5	00.0	94.5 70	130		
Sample ID: 2104E	53-001A MS G Sam	pType: MS	Tes	stCode: EPA Method	l 8015D Mod: Gasolir	ne Range	
Client ID: TP1	Bat	tch ID: C77007	I	RunNo: 77007			
Prep Date:	Analysis	Date: 4/28/2021	1	SeqNo: 2730261	Units: mg/Kg		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Gasoline Range Organ	ics (GRO) 24	5.0 2	5.00 0	95.2 49.2	122		
	400	5	00.0	95.5 70	130		
Sample ID: 2104E	53-001A MSD Sam	pType: MSD	Tes	stCode: EPA Method	8015D Mod: Gasolir	ne Range	
Client ID: TP1	Bat	tch ID: C77007	I	RunNo: 77007			
Prep Date:	Analysis	Date: 4/28/2021	1 -	SeqNo: 2730263	Units: mg/Kg		
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Gasoline Range Organ	ics (GRO) 23	5.0 2	5.00 0	90.8 49.2	122 4.6	9 20	
SUII. DED	480	5	0.00	90.0 70	130	0 0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11

•

HALL ENVIRONMENTA ANALYSIS LABORATORY	Hall Environme. TEL: 505-345-3 Website: client	ntal Analysis Labor 4901 Hawkin Albuquerque, NM & 975 FAX: 505-345 s.hallenvironmenta	alory ns NE 37109 Sarr -4107 -1.com	Sample Log-In Check List				
Client Name: GHD	Work Order Num	ber: 2104B53		RcptNo: 1				
Received By: Cheyenne	Cason 4/28/2021 8:00:00	АМ	Chul					
Completed By: Chevenne	Cason 4/28/2021 8:22:28	АМ	(James /					
Reviewed By: <u>5</u> 0	4/28/21							
Chain of Custody								
1. Is Chain of Custody comple	te?	Yes 🗹	No 🗌	Not Present				
2. How was the sample delive	red?	<u>Courier</u>						
Log In 3. Was an attempt made to co	ol the samples?	Yes 🗸	No 🗌	na 🗆				
4. Were all samples received	at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌					
5. Sample(s) in proper contair	er(s)?	Yes 🔽	No 🗌					
6. Sufficient sample volume for	r indicated test(s)?	Yes 🗹	No 🗀					
7, Are samples (except VOA a	nd ONG) properly 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 containe	rs received broken?	Yes	No 🗹	# of preserved bottles checked				
11. Does paperwork match both (Note discrepancies on cha	le labels? in of custody)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless not				
12. Are matrices correctly ident	ified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?				
13. Is it clear what analyses we	re requested?	Yes 🗹	No 🗌	and alloch				
14. Were all holding times able (If no, notify customer for a	to be met? uthorization.)	Yes 🗹	No 🗔					
Special Handling (if app	licable)							
15. Was client notified of all di	screpancies with this order?	Yes 🗌	No 🗌	NA 🗹				
Person Notified:	Date	e: [
By Whom:	Via:	🗌 eMail 🗌	Phone 📋 Fax	🗌 In Person				
Regarding: Client Instructions:			2					
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No. Temp [®] C	Condition Seal Intact Seal No	Seal Date	Signed By					

	Receiv	ed by	0C	D: 7/2	21/20)21 .	:48	:33 PA	1						<u> </u>				<u> </u>		Т	1	Page 3	4 of 52
	Receiv	STS LABORATORY 6	vironmental com	buquerque. NM 87109	Fax 505-345-4107	lysis Request	(1)	iesdA/	1 lues	A))		(AO) ofilo	250 (V 270 (S otal Co	8 8 1								EDG	₹ <i>age 3</i>	te clearly notated on the analytical report.
•				4901 Hawkins NE - Al	Tel. 505-345-3975	Anal	[*] 0	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's PPHs by 8310 or 8270SIMS PCRA 8 Metals Q; F, Br, NO3, NO2, PO4, SO								4			narks: Surve, Laill the	these Scale	sibility. Any sub-contracted data will b			
15	ne:	KRush Devel 24	13	Wr El) #5 B.H	Ø		(1	(802°	MB.	Kes □ No	.BE	dia ch): 3. 40. 2.2.3. (°C)	eservative	260 ×	002	Ca2	Cert	900 002	00C 1			fia: Date Time Ref		\sim $\sqrt{128/v}$ 08.00 silfed laboratories. This serves as notice of this poss
	Turn-Around Tin	□ Standard	Project Name:	Boundary /	Project	5149410	Project Manager	ALL LOLL	Sampler: 70	On Ice:	# of Coolers: L	Cooler Temp(indue	Container Pre		-			1	4			 Received by: NV	Received by: W	CLA CLA
	Chain-of-Custody Record	client: GHO		Mailing Address:	324 W. Minst Suit 108. And she NMERIO	Phone #: (505) 377-3920	email or Fax#: T. R. W. New Q. CHO. com	0A/OC Package Zier L. Comine & GHO, Com Chuse _se Hie Secure Severes. Com			EDD (Type)			4/21/21 DB45 S TP1	1 0850 1 TP2	TP3	P47 0000	V 0905 V 1755	× 1215 2 TPE			Date: Time: Relinquished by: Hzdy, 13%D 2,2,7	Date: Time: Relinquished by	If all (f to) / / // If necessary, samples submitted to Hall Environmental may be subc



May 28, 2021

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

RE: Brannigan ANF Federal 5 Pipeline

OrderNo.: 2105947

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: GHD Lab Order: 2105947 Project: Brannigan ANF Federal 5 Pipeline Collection Date: 5/18/2021 1:40:00 PM Lab ID: 2105947-001 Collection Date: 5/18/2021 1:40:00 PM Client Sample ID: HA1 Matrix: SOIL Batch IE Analyses Result RL Qual Units DF Date Analyzed Batch IE EPA METHOD 300.0: ANIONS Analysi: SD Analysi: VP Choride 66 mg/Kg 1 5/24/2021 1:47:58 PM 60211 Diesel Range Organics (MRO) ND 8.8 mg/Kg 1 5/24/2021 1:47:58 PM 60211 Sur: DNOP Diesel Range Organics (MRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: FPB B9.8 70:130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Banzane ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur:: FPB B9.8 Rota	Hall Environmental Analysis La	aboratory,	Inc.		I I	Analytical Report Lab Order: 2105947 Date Reported: 5/28/2021	
Lab ID: 2105947-001 Collection Date: 5/18/2021 1:40:00 PM Client Sample ID: HA1 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch IE EPA METHOD 300.0: ANIONS Analyst: VP Chlorida 66 60 mg/Kg 2 5/24/2021 1::::::::::::::::::::::::::::::::::::	CLIENT:GHDProject:Brannigan ANF Federal 5 Project:	ipeline			Lab ()rder: 2105947	
Client Sample ID: HA1 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch IE EPA METHOD 300.0: ANIONS Analyst: Choride 66 60 mg/kg 20 5/24/2021 1/47:59 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Analyst: SB Diesel Range Organics (ORO) ND 44 mg/kg 1 5/24/2021 10:15:25 AM 60191 Surr. DNOP 119 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 Gasoline Range Organics (ORO) ND 4.8 mg/kg 1 5/24/2021 10:15:25 AM 60191 Surr. BFB 89.8 70-130 %Rec 1 5/24/2021 10:15:25 AM 60185 Surr. BFB 89.8 70-130 %Rec 1 5/24/2021 10:15:25 AM 60185 Surr. BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Surr. BFB 89.8 70-130	Lab ID: 2105947-001		С	collection Dat	te: 5/	18/2021 1:40:00 PM	
Analyses Result RI. Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS 66 60 mg/Kg 20 5/24/2021 11:47:59 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Desel Range Organics (DRO) ND 8.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Motor Oil Range Organics (DRO) ND 4.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 FPA METHOD 8015D: GASOLINE RANGE - Analyst: NB 5/24/2021 10:15:25 AM 60191 Surr: EPB 89.8 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 Surr: EPB 89.8 70-130 %Rec 1 5/24/2021 147:48 PM 60185 Surr: EPB 89.8 70-130 %Rec 1 5/24/2021 147:48 PM 60185 Surr: ABromofuorobenzene ND 0.044 mg/Kg 1 5/24/2021 147:48 PM 60185 Surr: 4-Bromofuorobenzene ND 0.047 mg/Kg	Client Sample ID: HA1			Matri	x: SC	DIL	
EPA METHOD 300.0: ANIONS Analyst: VP Chloride 66 60 mg/Kg 20 5/24/2021 1:47:59 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Enalyst: SB Diesel Range Organics (DRO) ND 8.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Motor Oil Range Organics (MRO) ND 4.4 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Surr: DNOP 119 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES	Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch	1D
Chloride 66 60 mg/Kg 20 5/24/2021 1:47:59 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS	EPA METHOD 300.0: ANIONS					Analyst: VP	2
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) ND 8.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Motro Oli Range Organics (MRO) ND 4.4 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Sur: DNOP 119 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Sadoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Enzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: 4-Bromofluorobenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: 4-Bromofluorobenzene ND 0.097 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Lab ID: <t< td=""><td>Chloride</td><td>66</td><td>60</td><td>mg/Kg</td><td>) 20</td><td>5/24/2021 1:47:59 PM 602</td><td>211</td></t<>	Chloride	66	60	mg/Kg) 20	5/24/2021 1:47:59 PM 602	211
Diesel Range Organics (DRO) ND 8.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Sur: DNOP 19 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES	EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: SB	3
Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Sur: DNOP 119 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 10:15:25 AM 60191 Sur: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Gasoline Range Organics (GRO) ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Chioride 94 59 mg/Kg 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 300.0: ANIONS Analyst: VP Chioride 94 59 mg/Kg 1 5/24/2021 1:47:48 PM 60191 <t< td=""><td>Diesel Range Organics (DRO)</td><td>ND</td><td>8.8</td><td>mg/Kg</td><td>, 1</td><td>5/24/2021 10:15:25 AM 60</td><td>191</td></t<>	Diesel Range Organics (DRO)	ND	8.8	mg/Kg	, 1	5/24/2021 10:15:25 AM 60	191
Sur:: DNOP 119 70-130 %Rec 1 5/24/2021 10:15:25 AM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst:: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur:: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Analyst: NSB Benzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur:: 4-Bromofluorobenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Sur:: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Charlyst: VP Chloride 94 59 mg/Kg 2 5/24/2021 1:45:00 PM Chient Sample ID: HA2 Matrix: SOL Analyst: VP	Motor Oil Range Organics (MRO)	ND	44	mg/Kg	, 1	5/24/2021 10:15:25 AM 60	191
EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/2/4/2021 1:47:48 PM 60185 Sur: BFB 89.8 70-130 %Rec 1 5/2/4/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.024 mg/Kg 1 5/2/4/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/2/4/2021 1:47:48 PM 60185 Sylenes, Total ND 0.048 mg/Kg 1 5/2/4/2021 1:47:48 PM 60185 Sur: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/2/4/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Choride 94 59 mg/Kg 1 5/2/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Choride 94 59 mg/Kg 1 5/2/2021 1:20:23 PM	Surr: DNOP	119	70-130	%Rec	1	5/24/2021 10:15:25 AM 60 ⁻	191
Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB NSB Enzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Chioride 94 59 mg/Kg 20 5/24/2021 1:47:48 PM 60185 Dissel Range Organics (DRO) 9.9 9.7 mg/Kg 20 5/24/2021 1:47:48 PM 60191 Motor Oil Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 1:21:44:48 PM 60191 Surr: DNOP 120 70-130 %Rec <td>EPA METHOD 8015D: GASOLINE RANGE</td> <td></td> <td></td> <td></td> <td></td> <td>Analyst: NS</td> <td>SB</td>	EPA METHOD 8015D: GASOLINE RANGE					Analyst: NS	SB
Sur: BFB 89.8 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Client Sample ID: HA2 Matrix: SOIL Analyse: VP Chioride 94 59 mg/Kg 20 5/24/2021 1:21:42:8 PM 60185 Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 1:21:42:48 PM 60191 Sur: DNOP 120 70-130 %Rec 1 5/22/2021 1:21:44:48 PM 60191 <td< td=""><td>Gasoline Range Organics (GRO)</td><td>ND</td><td>4.8</td><td>mg/Kg</td><td>, 1</td><td>5/24/2021 1:47:48 PM 60</td><td>185</td></td<>	Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	, 1	5/24/2021 1:47:48 PM 60	185
EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Client Sample ID: HA2 Matrix: SOIL Analyse: VP Chloride 94 59 mg/Kg 20 5/24/2021 1:47:48 PM 60185 EPA METHOD 300.0: ANIONS Analyse: VP Analyse: VP 60211 Chloride 94 59 mg/Kg 1 5/22/201 1:47:48 PM 60191 Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/201 1:21:4:48 PM 60191 Surr: DNOP 120 <	Surr: BFB	89.8	70-130	%Rec	1	5/24/2021 1:47:48 PM 60	185
Benzene ND 0.024 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Toluene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Xylenes, Total ND 0.097 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Client Sample ID: HA2 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS Analyst: VP Analyst: VP Choiride 94 59 mg/Kg 1 5/22/2021 1:2:14:48 PM 60191 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 1:2:14:48 PM 60191 Surr	EPA METHOD 8021B: VOLATILES					Analyst: NS	3B
Induce ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 EPA METHOD 300.0: ANIONS Result RL Qual Units DF Date Analyst: NP Diesel Range Organics (DRO) 9.	Benzene	ND	0.024	mg/Kg	, 1	5/24/2021 1:47:48 PM 60	185
Linybergene ND 0.097 mg/Kg 1 5/24/2021 1:47:48 PM 60185 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:47:48 PM 60185 Client Sample ID: HA2 Matrix: SOIL SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS Analyst: VP Solido Analyst: VP Chloride 94 59 mg/Kg 1 5/22/2021 1:2:14:48 PM 60191 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb O191 Mg/Kg 1 5/22/2021 1:2:14:48 PM 60191 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 1:2:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 1:2:14:48 PM 60191 Surr: BFB 94.1 70-130 %Rec 1 5/22/2021	l oluene Ethylhenzene		0.048	mg/Kg	, 1 , 1	5/24/2021 1:47:48 PM 60'	185
Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/24/2021 1:47:48 PM 60185 Lab ID: 2105947-002 Collection Date: 5/18/2021 1:45:00 PM Client Sample ID: HA2 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS Analyst: VP Chloride 94 59 mg/Kg 20 5/24/2021 2:00:23 PM 60211 EPA METHOD 300.0: ANIONS Analyst: VP Chloride 94 59 mg/Kg 10 5/22/2021 12:14:48 PM 60191 Motor Oil Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 Surr: BFB 94.1 70-130 %Rec 1	Xvlenes. Total	ND	0.040	ma/Ko	, . 1	5/24/2021 1:47:48 PM 60	185
Lab ID: 2105947-002 Collection Date: 5/18/2021 1:45:00 PM Client Sample ID: HA2 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS Analyst: VP Analyst: VP Chloride 94 59 mg/Kg 20 5/24/2021 2:0:23 PM 60211 EPA METHOD 301.0: ANIONS Analyst: VP Analyst: VP Chloride 94 59 mg/Kg 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb O191 Motor Oil Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 % Rec 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 <td>Surr: 4-Bromofluorobenzene</td> <td>100</td> <td>70-130</td> <td>%Rec</td> <td>, 1</td> <td>5/24/2021 1:47:48 PM 60</td> <td>185</td>	Surr: 4-Bromofluorobenzene	100	70-130	%Rec	, 1	5/24/2021 1:47:48 PM 60	185
Client Sample ID: HA2 Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS Analyse Analyse Analyse Analyse Analyse Analyse VP Chloride 94 59 mg/Kg 20 5/24/2021 2:00:23 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyse: Mb Matrix: Mb 60191 Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 Toluene ND	Lab ID: 2105947-002		C	collection Dat	te: 5/	18/2021 1:45:00 PM	
Analyses Result RL Qual Units DF Date Analyzed Balt III EPA METHOD 300.0: ANIONS Analyses Analyses Image State St	Client Sample ID: HA2			Matri	x: SC	DIL	
EPA METHOD 300.0: ANIONS Analysi: VP Chloride 94 59 mg/Kg 20 5/24/2021 2:00:32 PM 60214 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Market 1 5/22/2021 12:14:48 PM 60194 Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60194 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 12:14:48 PM 60194 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60194 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/22/2021 12:14:48 PM 60194 Surr: BFB 94.1 70-130 %Rec 1 5/22/2021 12:14:48 PM 60194 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ehylbenzene ND 0.047 mg/Kg 1	Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch	1D
Chloride 94 59 mg/Kg 20 5/24/2021 2:00:23 PM 60211 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Kmb <	EPA METHOD 300.0: ANIONS					Analyst: VP	2
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analysi: mb Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Sur: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015D: GASOLINE RANGE To 5/22/2021 12:14:48 PM 60191 Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 EPA METHOD 8021B: VOLATILES VLATILES Analysi ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Benzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Kylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Sur: 4-Bromofluorobenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185	Chloride	94	59	mg/Kg	, 20	5/24/2021 2:00:23 PM 602	211
Diesel Range Organics (DRO) 9.9 9.7 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015D: GASOLINE RANGE	EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: mt	b
Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/22/2021 12:14:48 PM 60191 Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 EPA METHOD 8021B: VOLATILES ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	Diesel Range Organics (DRO)	9.9	9.7	mg/Kg	, 1	5/22/2021 12:14:48 PM 60 ⁻	191
Surr: DNOP 120 70-130 %Rec 1 5/22/2021 12:14:48 PM 60191 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene ND 0.093 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	Motor Oil Range Organics (MRO)	ND	48	mg/Kg	, 1	5/22/2021 12:14:48 PM 60	191
AMETHOD 8015D: GASOLINE RANGE Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185	Surr: DNOP	120	70-130	%Rec	1	5/22/2021 12:14:48 PM 60 ⁴	191
Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: BFB 94.1 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	EPA METHOD 8015D: GASOLINE RANGE					Analyst: NS	SB
EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	Gasoline Range Organics (GRO) Surr: BFB	ND 94.1	4.7 70-130	mg/Kg %Rec	; 1 1	5/24/2021 2:11:23 PM 60 5/24/2021 2:11:23 PM 60	185) 185
Benzene ND 0.023 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Toluene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Ethylbenzene ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Xylenes, Total ND 0.047 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	EPA METHOD 8021B: VOLATILES					Analyst: NS	SB
TolueneND0.047mg/Kg15/24/2021 2:11:23 PM60185EthylbenzeneND0.047mg/Kg15/24/2021 2:11:23 PM60185Xylenes, TotalND0.093mg/Kg15/24/2021 2:11:23 PM60185Surr: 4-Bromofluorobenzene10270-130%Rec15/24/2021 2:11:23 PM60185	Benzene	ND	0.023	mg/Kg	, 1	5/24/2021 2:11:23 PM 60	185
EthylbenzeneND0.047mg/Kg15/24/2021 2:11:23 PM60185Xylenes, TotalND0.093mg/Kg15/24/2021 2:11:23 PM60185Surr: 4-Bromofluorobenzene10270-130%Rec15/24/2021 2:11:23 PM60185	Toluene	ND	0.047	mg/Kg	, 1	5/24/2021 2:11:23 PM 607	185
Xylenes, I otal ND 0.093 mg/Kg 1 5/24/2021 2:11:23 PM 60185 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	Ethylbenzene	ND	0.047	mg/Kg	, 1	5/24/2021 2:11:23 PM 60	185
Sun: 4-biomonuorobenzene 102 70-130 %Rec 1 5/24/2021 2:11:23 PM 60185	Xylenes, Total	ND	0.093	mg/Kg	, 1 ₄	5/24/2021 2:11:23 PM 60'	185
	Sun. 4-Diomonuorobenzene	102	70-130	%KeC	1	5/24/2021 ZTTT23 PM 60'	105

Released to Imaging: 8/25/2021 9:17:46 AM

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

.

CLIENT:

Project:

Lab ID:

Analyses

Chloride

Client Sample ID:

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

5/24/2021 2:37:36 PM

5/24/2021 2:34:54 PM

5/22/2021 12:24:55 PM 60191

5/22/2021 12:24:55 PM 60191

5/22/2021 12:24:55 PM 60191

60211

60185

60185

60185

60185

60185

60185

60185

Analyst: mb

Analyst: NSB

Analyst: NSB

Analytical Report Lab Order: 2105947 Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/28/2021 Lab Order: GHD 2105947 Brannigan ANF Federal 5 Pipeline 2105947-003 Collection Date: 5/18/2021 1:50:00 PM HA3 Matrix: SOIL Result **RL** Oual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP

59

9.2

46

4.9

70-130

70-130

0.025

0.049

0.049

0.099

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

20

1

1

1

1

1

1

1

1

1

1

530

ND

ND

117

ND

89.7

ND

ND

ND

ND

100

Refer to the QC S	Summary report and	sample login checkl	ist for flagged QC data a	nd preservation information.
-------------------	--------------------	---------------------	---------------------------	------------------------------

Qualifiers:

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

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

В

Page 2 of 6

Released to Imaging: 8/25/2021 9:17:46 AM

	WO#:	2105947
all Environmental Analysis Laboratory, Inc.		28-May-21

Client:	GHD								
Project:	Branniga	in ANF Federa	ll 5 Pipeline						
Sample ID:	MB-60211	SampType	: MBLK	Tes	tCode: EPA Method	300.0: Anions	;		
Client ID:	PBS	Batch ID:	60211	F	RunNo: 77619				
Prep Date:	5/24/2021	Analysis Date:	5/24/2021	S	SeqNo: 2755203	Units: mg/Kg	9		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID:	LCS-60211	SampType	LCS	Tes	tCode: EPA Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID:	60211	F	RunNo: 77619				
Prep Date:	5/24/2021	Analysis Date:	5/24/2021	S	SeqNo: 2755204	Units: mg/Kg	9		
Analyte		Result P	QL 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

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

Page 3 of 6

Client:

Project:

Analvte

Analyte

Surr: DNOP

Surr: DNOP

Sample ID: MB-60191

Prep Date: 5/21/2021

Diesel Range Organics (DRO)

Sample ID: LCS-60191

Prep Date: 5/21/2021

Diesel Range Organics (DRO)

Client ID: LCSS

Motor Oil Range Organics (MRO)

Client ID: PBS

QC SUMMARY REPORT Hall Environmental Ana

Result

ND

ND

13

Result

64

7.2

Batch ID: 60191

Analysis Date: 5/22/2021

SampType: LCS

Batch ID: 60191

Analysis Date: 5/22/2021

PQL

10

PQL

10

50

SPK value SPK Ref Val

SPK value SPK Ref Val

10.00

50.00

5.000

imei	ntal Analysis Laborato	WO#: 210594 28-May-2
GHD Brann	igan ANF Federal 5 Pipeline	
91	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

130

Units: mg/Kg

141

130

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

S

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 77590

128

RunNo: 77590

%REC

127

145

0

SeqNo: 2754004

SeqNo: 2753997

%REC LowLimit

70

LowLimit

68.9

70

Qualifiers:

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

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

Page 4 of 6

QC SUMMARY REPORT Hall En

Page	<i>40</i>	01	^c 52
		~	

	WO#:	2105947
vironmental Analysis Laboratory, Inc.		28-May-21

Client:	GHD										
Project:	Branniga	an ANF Fee	leral 5 l	Pipeline							
Sample ID:	mb-60185	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batcl	n ID: 60	185	F	RunNo: 7	7617				
Prep Date:	5/21/2021	Analysis D	0ate: 5/	24/2021	5	SeqNo: 2	755051	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		91.2	70	130			
Sample ID:	lcs-60185	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batcl	n ID: 60	185	F	RunNo: 7	7617				
Prep Date:	5/21/2021	Analysis D	0ate: 5/	24/2021	5	SeqNo: 2	755052	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	24	5.0	25.00	0	95.4	78.6	131			
Surr: BFB		1000		1000		100	70	130			

Qualifiers:

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

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

Page 5 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	41	oj	f 52
------	-----------	----	------

WO#:	2105947
	20 14 21

Client: C Project: I	GHD Brannigan ANF Fe	ederal 5	Pipeline							
Sample ID: mb-60185 SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Bate	ch ID: 60	185	F	RunNo: 7	7617				
Prep Date: 5/21/20	21 Analysis	Date: 5/	24/2021	S	SeqNo: 2	755095	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenz	zene 1.0		1.000		103	70	130			
Sample ID: LCS-601	85 Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bate	ch ID: 60	185	F	RunNo: 7	7617				
Prep Date: 5/21/20	21 Analysis	Date: 5/	24/2021	S	SeqNo: 2	755096	Units: mg/k	٢g		
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-Bromofluorobenz	zene 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

- 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 ENVIRONM ANALYSIS LABORATO	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 Orde	er Numbe	r: 210	5947			RcptNo:	1	
Received By: Juar	n Rojas	5/20/2021 7:	30:00 AN	Л		iftin	nay			
Completed By: Che	yenne Cason	5/21/2021 8:	16:32 AN	Λ		(las	1			
Reviewed By: 5	DA 5.21.21					Care				
Chain of Custody										
1. Is Chain of Custody	complete?			Yes	~	N	•	Not Present		
2. How was the sample	e delivered?			Cou	rier					
Log In 3 Was an attempt mar	to to cool the complex?									
o. was an attempt mat	te to cool the samples?			res	V	INC	, []			
4. Were all samples rec	ceived at a temperature of	of >0° C to 6.0	°C	Yes	~	N	•	NA 🗌		
5. Sample(s) in proper	container(s)?			Yes		No	•			
6. Sufficient sample vol	ume for indicated test(s)	?		Yes	~	No				
7. Are samples (except	VOA and ONG) properly	preserved?		Yes	~	No				
8. Was preservative add	ded to bottles?			Yes		No		NA 🗌		
9. Received at least 1 v	ial with headspace <1/4"	for AQ VOA?		Yes		No		NA 🗹	70	
10. Were any sample co	ntainers received broker	1?		Yes		No		# of preserved	_	
11. Does paperwork mat	ch bottle labels?			Yes		No		bottles checked for pH:	5.21.21	
(Note discrepancies of	on chain of custody)	1000		-				<2 or ≥ Adjusted2	12 unless noted)	
12. Are matrices correctly	y identified on Chain of C	Sustody?		Yes		No		Adjusted		
13. Is it clear what analys	ses were requested?			Yes		No		Charked by:		
(If no, notify custome	r for authorization.)			res		NC	Ц	Checked by.		
Special Handling (in	f applicable)									
15. Was client notified o	f all discrepancies with th	nis order?		Yes		No		NA 🗹		
Person Notified	d:		Date:	-						
By Whom:	1		Via: [eM	ail 📋	Phone [Fax	In Person		
Regarding:	1									
Client Instruction	ons:									
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Ten	np ⁰C Condition Se	al Intact Sea	II No	Seal D	ate	Signed	Ву			

Page 1 of 1

Received by OCD: 7/21/202	1 5:48:33 bw (V to Y) selddud tiA	Page 43 of 52
AL		He
EN EN		Port Provent
AEI 109	202 (PTPW 38197) 205	Se Se
MN 87 M 87	(AOV-ime) 0728	kO ko
AL AL Ie, Ni uesi uesi	(AOV) 80608 (VOA)	1/2 //S
VII S I Immen Janen Jaonen Janen Janen Janen Janen Jao	8081 Pesticides / 8082 PCB's	y notat
SI SI Nviror Ibuqu Fax Iysis	Anions (F,Cl,NO ₂ ,PO ₄ ,SO ₄)	t dear
L E L E		a will b
AL MA MA N.W.		Sill Loi
A A v awkin 5-345	(1.814 bother) H9T	Contrac
1. 50t	- У (БН 8012B (СКО \ DKO \ WKO)	A A A
1 490	BTEX + MTBE + TPH (Gas only)	larks:
	CL208) S BLEX + WLBE + TWB, 2 (8051)	Rem
-line		g of this
A	- No	Time Time
Se St	225 23 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e u/21
S	B B D C C C C C C C C C C C C C C C C C	5 Dat Dat
ush (The second secon	e C C
AND SZ	xpe ervat	LU I
Time	Beratting Ber	L L
Vame Vame	Vana Aana Aana Aana Aana Aana	Her acc
n-Arc Star Jject I	ject h	ed to de
Pro Pro	C I I C Sar D Sar	Rece
	D D D	e subc
BRM		may b
NN NE		menta
Y R	N N De De L	Environ
Pol Pr-	THA Sam Leve	to Hall
isin sin		ied by
	atrix atrix	nquist nquist nquist
- H		K samp
hai	ard and and and and and and and and and an	me: me: J900
int: Ing A	DDD C Period	If ne
Clic Mai Pho		Date: Date:

Released to Imaging: 8/25/2021 9:17:46 AM



June 09, 2021

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

RE: Brannigan AWF Federal 5 Pipeline

OrderNo.: 2106163

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 1 sample(s) on 6/3/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

GHD

CLIENT:

Analytical Report Lab Order: 2106163

Date Reported: 6/9/2021

2106163

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

Project: Brannigan AWF Federal 5	Pipeline					
Lab ID: 2106163-001		Coll	ection Date	: 6/1	/2021 9:45:00 AM	[
Client Sample ID: HA4			Matrix	: SC	DIL	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: VP
Chloride	280	60	mg/Kg	20	6/7/2021 2:36:56 P	M 60459
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2021 10:56:17	PM 60427
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 10:56:17	PM 60427
Surr: DNOP	84.6	70-130	%Rec	1	6/4/2021 10:56:17	PM 60427
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/4/2021 7:37:11 P	M 60424
Surr: BFB	103	70-130	%Rec	1	6/4/2021 7:37:11 P	M 60424
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Benzene	ND	0.025	mg/Kg	1	6/4/2021 7:37:11 P	M 60424
Toluene	ND	0.050	mg/Kg	1	6/4/2021 7:37:11 P	M 60424
Ethylbenzene	ND	0.050	mg/Kg	1	6/4/2021 7:37:11 P	M 60424
Xylenes, Total	ND	0.10	mg/Kg	1	6/4/2021 7:37:11 P	M 60424
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/4/2021 7:37:11 P	M 60424

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

Qualifiers:

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

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 1 of 5

Analyte

Sample ID: LCS-60459

6/7/2021

Client ID: LCSS

Prep Date:

Analyte

Chloride

Chloride

Result

Result

14

ND

PQL

SampType: LCS

Batch ID: 60459

PQL

1.5

15.00

Analysis Date: 6/7/2021

1.5

RPDLimit

RPDLimit

Qual

Qual

Hall Envi	WO#:	2106163 09-Jun-21			
Client: Project:	GHD Branı	nigan AWF Federal 5 Pipeline			
Sample ID: MI	3-60459	SampType: MBLK	TestCode: EPA Method 300.0: Anions		
Client ID: PE	BS	Batch ID: 60459	RunNo: 78895		
Prep Date: 6	/7/2021	Analysis Date: 6/7/2021	SeqNo: 2767286 Units: mg/Kg		

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

0

HighLimit

Units: mg/Kg

110

HighLimit

TestCode: EPA Method 300.0: Anions

90

RunNo: 78895

92.9

SeqNo: 2767287

%RPD

%RPD

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

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	47	of	52
------	----	----	----

WO#:	2106163
	09-Jun-21

Client:	GHD										
Project:	Brannig	gan AWF Feder	ral 5	Pipeline							
Sample ID:	MB-60427	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch ID): 60 4	427	F	RunNo: 7	8853				
Prep Date:	6/3/2021	Analysis Date	e: 6/	4/2021	S	SeqNo: 2	766244	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	ND	10								
Motor Oil Range	e Organics (MRO)	ND	50								
Surr: DNOP	,	8.5		10.00		84.7	70	130			
Sample ID:	LCS-60427	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch ID): 60 4	427	F	RunNo: 7	8853				
Prep Date:	6/3/2021	Analysis Date	e: 6/	4/2021	S	SeqNo: 2	766245	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	41	10	50.00	0	82.5	68.9	141			
Surr: DNOP		4.4		5.000		87.4	70	130			
Sample ID:	MB-60453	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch ID): 60 4	453	F	RunNo: 7	8881				
Prep Date:	6/5/2021	Analysis Date	e: 6/	5/2021	S	SeqNo: 2	766497	Units: %Red	•		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		103	70	130			
Sample ID:	LCS-60453	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch ID): 60 4	453	F	RunNo: 7	8881				
Prep Date:	6/5/2021	Analysis Date	e: 6/	5/2021	5	SeqNo: 2	766498	Units: %Red	•		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.9		5.000		97.8	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
- S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT Ha _____

Page	<i>48</i>	of	52
------	-----------	----	----

QC DC.		WO#:	2106163
Hall Env	vironmental Analysis Laboratory, Inc.		09-Jun-21
Client:	GHD		

Project: Brannig	an AWF Fe	deral 5	Pipeline							
Sample ID: mb-60424	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batc	n ID: 604	424	F	RunNo: 78	8876				
Prep Date: 6/3/2021	Analysis E	Date: 6/	4/2021	S	SeqNo: 2	766354	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	1000		1000		103	70	130			
Sample ID: Ics-60424	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
	Oumpi	ype. LC	3	Tes	tCode: El	A Method	8015D: Gasc	line Range	e	
Client ID: LCSS	Batcl	n ID: 604	424	F	RunNo: 7	PA Method 8876	8015D: Gasc	oline Rango	e	
Client ID: LCSS Prep Date: 6/3/2021	Batcl Analysis [) Di Di 60 4 Date: 6/	424 4/2021	Fes F	RunNo: 78 SeqNo: 2	² A Method 3876 766355	Units: mg/k	oline Rango Kg	e	
Client ID: LCSS Prep Date: 6/3/2021 Analyte	Batcl Analysis I Result	Date: 6/	424 4/2021 SPK value	F SPK Ref Val	Code: EF RunNo: 78 SeqNo: 27 %REC	7A Method 3876 766355 LowLimit	8015D: Gasc Units: mg/k HighLimit	oline Rango Kg %RPD	e RPDLimit	Qual
Client ID: LCSS Prep Date: 6/3/2021 Analyte Gasoline Range Organics (GRO)	Batcl Analysis I Result 25	Date: 6/ PQL 5.0	424 4/2021 SPK value 25.00	SPK Ref Val	Code: EF RunNo: 78 SeqNo: 27 <u>%REC</u> 101	PA Method 3876 766355 LowLimit 78.6	Units: mg/K HighLimit 131	Sine Rango Sg %RPD	e 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 S

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

Page 4 of 5

.

GHD

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Brannigan AWF Federal 5 Pipeline

Sample ID: mb-60424	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 60	424	F	lunNo: 7	8876				
Prep Date: 6/3/2021	Analysis I	Date: 6/	4/2021	S	eqNo: 2	766381	Units: mg/#	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			
Sample ID: LCS-60424	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 60	424	F	lunNo: 7	8876				
Prep Date: 6/3/2021	Analysis I	Date: 6/	4/2021	S	eqNo: 2	766382	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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

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

Page 5 of 5

WO#: 2106163 09-Jun-21

HALL ENVIRONMENTAL ANALYSIS LABORATORY		На TE И	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 N	Name:	GHD		Work	Order Num	ber: 210	6163			RcptNo	1
Receiver	ed By:	Cheyenne	e Cason	6/3/202	21 7:30:00 A	м		Cher	l		
Complet	ted By:	Cheyenne	e Cason	6/3/202	1 7:56:31 A	м		Ches	1		
Reviewe	ed By:	JR	613121								
Chain c	of Cus	tody									
1. Is Cha	ain of Cu	stody comp	lete?			Yes		N	•	Not Present	
2. How v	was the	sample deliv	vered?			Cou	irier				
l og In	,										
3. Was a	an attem	pt made to d	cool the sampl	les?		Yes	~	N	•	NA 🗌	
4. Were	all samp	les received	at a temperat	ture of >0° C	to 6.0°C	Yes		N	•		
5 Same			iner(-)0						-		
o. Samp	ne(s) in p	noper conta	iner(s)?			Yes	V	N	0		
6. Sufficie	ient sam	ple volume f	or indicated te	st(s)?		Yes	\checkmark	No			
7. Are sa	amples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	\checkmark	No			
8. Was p	preservat	ive added to	bottles?			Yes		No		NA 🗌	
9. Receiv	ved at le	ast 1 vial wit	h headspace ·	<1/4" for AQ V	/OA?	Yes		No	0	NA 🔽	
10. Were	any sam	ple containe	ers received bi	roken?		Yes		N			40
										 # of preserved bottles checked 	6/3/71
11. Does p	paperwo	rk match bot	tle labels?	0		Yes	V	No		for pH:	
2 Are ma	atrices c	orrectly iden	tified on Chair	of Custody?		Yes		No		Adjusted?	>12 unless noted)
3 Is it cle	ear what	analyses we	ere requested	?		Yes		No			
4. Were a	all holdin	g times able	to be met?			Yes		No		Checked by:	
(If no, i	notify cu	stomer for a	uthorization.)								
Special I	Handli	ng (if app	licable)								
15. Was c	client not	ified of all di	screpancies w	vith this order?	>	Yes		N	o 🗌	NA 🗹	
1	Person I	Notified:			Date:	r					
- 1	By Who	n:			Via:	🗌 eM	ail 🗌	Phone	Fax	In Person	
1	Regardi	ng:					-				
(Client In	structions:									
16. Additi	ional ren	harks:									
17. <u>Coole</u>	er Inforr	nation									
Co	oler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
1		1.2	Good								

Page 1 of 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com awkins NE - Albuquerque, NM 87109 5-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)		Resse circuit Zuch company of HD care of With others lish abour Bill the EOC Lare SHAR 3000
4901 H Tel. 50	8081 Pesticides/8082 PCB's	2	marks: Personal and a second s
Turn-Around Time: Standard ADRush & La Project Name: Brunnieu ANE Kolen AS Pyalme Project #:	Project Manager: Beck, Hackell Town Larson Sampler: Zeck, Hackell Sampler: Zeck, Countro On Ice: Hyes DNO # of Coolers: Ayes DNO Cooler Temp(including cF): 1, 2, 0°C) Cooler Temp(including cF): 1, 3, 0, 1, 2, 1, 2, 1°C) Container Preservative HEAL No. Type and # Type 2, 1, 0, 1, 6, 16, 3	Terrer Cort	Received By Via: Date Time Received By Via: Date Time Received By Via: Date Time Time And State Time Antracted to other accredited laboratories. This serves as notice of this point accredited laboratories.
Client: CHD Client: CHD Mailing Address: S2412624 Meine SI Swith 108 Address Multifran Phone #: (SOS) 377 - 4218	email or Fax#: IS-clar, Hoskell & CHD.com QA/QC Package Check_Scale & CHD.com Datadd Standard Standard NELAC NELAC Date Time Matrix Sample Name	HAY HAY	Date: Time: Relinquished by: Occrean 10000 2000 Date: Time: Relinquished by: Late: If necessary, samples submitted to Hall Environmental may be Subcompleted to Hall Environmentator environmental may be Subcompleted t

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	37339
	Action Type:
	[C-141] Release Corrective Action (C-141)
	·

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/25/2021

CONDITIONS

Page 52 of 52

Action 37339