

August 29, 2022

Vertex Project #: 22E-00123-04

Spill Closure Report:Cooper AHH #1 Battery (Section 1, Township 20 South, Range 24 East)
API: 30-015-26299
County: Eddy
Incident Report: NMLB1027336691/2RP-439

 Prepared For:
 EOG Resources, Inc.

 104 South 4th Street

 Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2 - Artesia 811 South 1st Street Artesia, New Mexico 88210

EOG Resources, Inc. retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of produced water caused by the breaking of a nipple on the discharge of a water pump at the Cooper AHH #1 Battery, API 30-015-26299, Incident NMLB1027336691/2RP-439 (hereafter referred to as "Cooper"). EOG provided notification to New Mexico Oil Conservation District (NMOCD) District 2 and the Bureau of Land Management (BLM), who own the land, via submission of an initial C-141 Release Notifications (Attachment 1). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.6055794, W -104.544754.

Background

The site is located approximately 7.21 miles west of Seven Rivers, New Mexico. The legal location for the site is Section 1, Township 20 South and Range 24 East in Eddy County, New Mexico. The spill area is located on BLM property. An aerial photograph and site schematic are included in Figure 1, Attachment 2.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2021) indicates the site's surface geology is comprised primarily of Qp - Piedmont alluvial deposits (Holocene to lower Pleistocene) and is characterized as Reagon loam. Predominant soil texture on the site is loamy. Ecological settings of the area consist of of grasslands with uniformly distributed grass patches on uncompacted soils. Dominant vegetation within this area includes black grama, tobosa, bunchgrasses, soaptree yucca, forbs, broom snakeweed, prickly pear and threeawns. Mesquite, tarbrush, creosote, and lovegrass are the greatest threat to dominate the area in the long term after disturbance.

The surrounding landscape is associated with alluvial fans and fan remnants typical of elevations between 1,100 to 4,400 feet above sea level. The climate is semi-arid with an average annual precipitation ranging between 7 to 14 inches. This soil tends to be well drained with low runoff and moderate available water supply (United States Department of Agriculture, Natural Resource Conservation Service, 2021).

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There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 of the New Mexico Administrative Code (NMAC), is Brantley Lake, located approximately 8.58 miles east-southeast of the site (United States Fish and Wildlife Service, 2021). There are no continuously flowing watercourses, lakebeds, sinkholes, play lakes, or other critical water or community features at Cooper, as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Incident Description

The spill occurred on August 17, 2010, due to a failure of the nipple on the discharge of the water pump. The spill was reported on September 3, 2010 and involved the release of approximately 925 barrels (bbl) of produced water into the unlined containment. Approximately 910 bbl of free fluid was removed during initial spill clean-up. The NMOCD C-141 Report: NMLB1027336691/2RP-439 is included in Attachment 1.

Closure Criteria Determination

The depth to groundwater was determined using information from the New Mexico Office of the State Engineer Water Depth to Water report and United States Department of the Interior, United States Geological Survey. A 0.5-mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 300 feet below ground surface (bgs) and 0.13 miles from the site. This site is located within a high karst potential area and within 1,000 feet of a fresh water well.

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	ne: Cooper AHH #1 Battery				
•	ordinates:	X: 32.60535	Y: -104.54472		
ite Spe	cific Conditions	Value	Unit		
1	Depth to Groundwater	300	feet		
2	Within 300 feet of any continuously flowing	45,311	feet		
2	watercourse or any other significant watercourse	+3,311			
	Within 200 feet of any lakebed, sinkhole or playa				
3	lake (measured from the ordinary high-water	45,311	feet		
	mark)				
4	Within 300 feet from an occupied residence,	8,945	feet		
4	school, hospital, institution or church	8,945	ieet		
	i) Within 500 feet of a spring or a private, domestic				
	fresh water well used by less than five households	710	feet		
5	for domestic or stock watering purposes, or				
	ii) Within 1000 feet of any fresh water well or	Nie	fact		
	spring	No	feet		
	Within incorporated municipal boundaries or				
	within a defined municipal fresh water field				
-	covered under a municipal ordinance adopted		() (())		
6	pursuant to Section 3-27-3 NMSA 1978 as	No	(Y/N)		
	amended, unless the municipality specifically				
	approves				
7	Within 300 feet of a wetland	1,623	feet		
8	Within the area overlying a subsurface mine	No	(Y/N)		
			Critical		
			High		
9	Within an unstable area (Karst Map)	High	Medium		
			Low		
10	Within a 100-year Floodplain	Zone X unshaded	year		
11	Soil Type	Reagan Loam			
12	Ecological Classification	Loamy			
13	Geology	Qp			
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'		

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The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release							
Minimum depth below any point within the horizontal boundary of the release to groundwater							
less than 10,000 mg/l TDS	Constituent	Limit					
	Chloride	600 mg/kg					
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg					
< 50 Teet	BTEX	50 mg/kg					
	Benzene	10 mg/kg					

TDS – total dissolved solids, TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics, BTEX – benzene, toluene, ethylbenzene and xylenes

Remedial Actions Taken

An initial site inspection of the spill area was completed on October 8, 2021, which identified the area of the spill specified in the initial C-141 Report, estimated the approximate volume of the spill and white lined the area required for the 811 One Call request. The impacted area was determined to be approximately 121 feet long and 88 feet wide; the total affected area was determined to be 5,309 square feet and the site schematic is included in Figure 1, Attachment 2. Field screening and laboratory results are included in Table 2, Attachment 3. The DFR and Daily Sampling Form associated with the site inspection is included in Attachment 4.

Remediation efforts began on November 29, 2021 and were completed on July 9, 2022. Vertex personnel supervised the excavation of impacted soils. Field screening was completed each day on multiple samples and consisted of analysis using on a photo ionization detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and titration (chlorides). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to a depth of 4, 12, 14, 17, and 20 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results are presented in Table 3 Attachment 3, as well as in the DFRs in Attachment 4. The site schematic is included in Figure 2, Attachment 2.

Notification that confirmatory samples were being collected was provided to the NMOCD on November 24, 2021, June 9, 2022, June 16, 2022, and June 23, 2022 and are included in Attachment 5. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. Confirmatory sampling was stopped along with remediation efforts so that the battery could be decommissioned and prepped for reclamation.

Remediation efforts resumed on April 18, 2022. Due to the removal of the equipment, confirmatory samples previously collected were not used due to additional excavation being required. A total of 184 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody (COC) protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are

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presented in Table 3, Attachment 3 and the laboratory data report can be found in Attachment 6. All confirmatory samples collected and analyzed were below closure criteria for the site.

Closure Request

The spill area was fully delineated, remediated and backfilled with local soils. Confirmatory Sample Notification email is presented in Attachment 6. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "under 50 feet to groundwater". Based on these findings, EOG Resources, Inc. requests that this spill be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.

August 29, 2022

Monica Peppin, A.S. PROJECT MANAGER, REPORTING Date

Attachments

- Attachment 1. NMOCD C-141 Report
- Attachment 2. Figures
- Attachment 3. Tables
- Attachment 4. Daily Field Reports with Photographs
- Attachment 5. Confirmatory Sample Notification
- Attachment 6. Laboratory Data Reports and COCs

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References

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- United State Fish and Wildlife Service. (2019). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/wetlands/data/mapper.html

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Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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ATTACHMENT 1

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			RECEI	VED
District I 1625 N. French Di Hobbs, NM 88240 District II		f New Mexico s and Natural Resources	SEP 29	2010 Form C-1 Revised October 10, 20
[30] W. Grand Avenue, Artesia, NM 88210 District III		ervation Division		RTESIA pies to appropri
1600 Rio Brazos Road, Aztec, NM 87410 District IV		th St. Francis Dr.	INNOCD A	With Rule 116 on ba
220 S. St. Francis Dr., Santa Fe, NM 87505	Santa	Fe, NM 87505		side of fo
MILIA	Release Notificat OPERATO	ion and Corrective Action	A1111-1-0	
MG8/02 7336691	OFERATO OGRID Number		🛛 🖄 Initial Rep	ort Final Report
Yates Petroleum Corporation	25575	Amanda Trujillo		
Address 104 S 4 ¹¹¹ Street		Telephone No. 575-748-1471		
Facility Name	API Number	Facility Type	Order	Number
Cooper AHH +1 Battery	30-015-26299	Battery	2RP- 439	× 00 000000000000000000000000000000000
Surface Owner Fee	Mineral Owner fee		Lease	
		ON OF RELEASE		
Unit LetterSectionIownshipRangF120S24E		th South Line Feet from the NOR111 1650	Fast/West Line WEST	County EDDY
La construction desires and and an an and	Latitude N33 1324	0 Longitude W104 13323		· · · · · · · · · · · · · · · · · · ·
		E OF RELEASE		
Type of Release WATER		Volume of Release 925	Volume 910	Recovered
Source of Release		Date and Hour of Occurren		Hlou of Discovery
Nipple on discharge of water pump blow out Was Immediate Notice Given?	me	8/17/2010 If YES, To Whom?	8/17/20	0 - PM
- 13 -14	Not Require	d Mike Bratcher – NMOCD	/Artesia	
By Whom?		Date and Hour 9/3/10) // · = /7 Ama	email Mª
<u>Anianda Trujillo - Yates Petroleum</u> Corporat Was a Watercourse Reached?		If YES. Volume Impacting	g the Watercourse	
If a Watercourse was Impacted. Describe Ful	<u>No</u> 1. ≠	N'A		~ ~ ~
N/A				<u> </u>
Describe Cause of Problem and Remedial Ac Nipple on discharge of water pump broke, Cl		amage Vacuum marks and els	an nn eilen a ac die	ratehod immediation to make
necessary repairs and remedial steps		allage. Vacuum fruers and cre	an operew was uts	active anniceaticy to make
Describe Area Affected and Cleanup Action An approximate size of 125° x 50° was impac	Taken.*		ul the star one turks	Soil from the south of reason
excavated and disposed of ai an NMOCD app	proved facility. Vertical an	d horizontal delineation sample	es will taken and an	alysis ran for TPH and BTEX
once all contaminated material has been remo State Engineers Office): Wellhead Protecti				
rance magneers officer, o children i force				TISA Reced on site ground
water quality and enclosed analytical resul				
I hereby certify that the information given ab	ove is true and complete to	the best of my knowledge and	funderstand that pu	rsuant to NMOCD rules and
I hereby certify that the information given ab regulations all operators are required to repor- public health or the environment. The accept	ove is true and complete to t and/or file certain release ance of a C-141 report by	o the best of my knowledge and notifications and perform corr the NMOCD marked as "Final	f understand that pu rective actions for n Report" does not to	rsuant to NMOCD rules and teases which may endanger theve the operator of hability
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Tule: Environmental Scientist	ove is true and complete to t and/or file certain release ance of a C-141 report by tely investigate and remed ceptance of a C-141 reports sum	o the best of my knowledge and notifications and perform corr the NMOCD marked as "Final late contamination that pose a t i does not relieve the operator of <u>OIL CO</u> Approved by D Signed By SEP 3 0 Approval Date Conditions of Approval REMEDIATION PE	f understand that purective actions for m Report" does not to hreat to ground wat of responsibility for NSERVATION 2010 L.spiration r OCD Rules an REMEDIATION	rsuant to NMOCD rules and eleases which may endanger dieve the operator of hability er, surface water, human health compliance with any other <u>V DIVISION</u>
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Oil Conservation Division

Incident ID	NMLB1027336691
District RP	2RP-439
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.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

 \overline{X} 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)

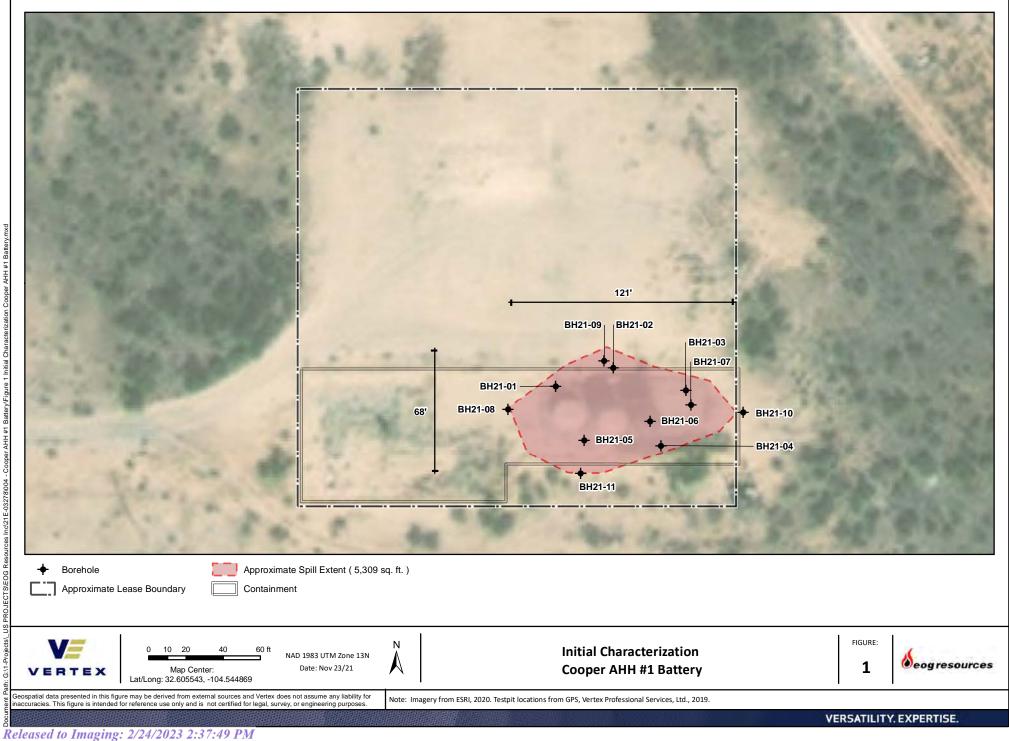
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

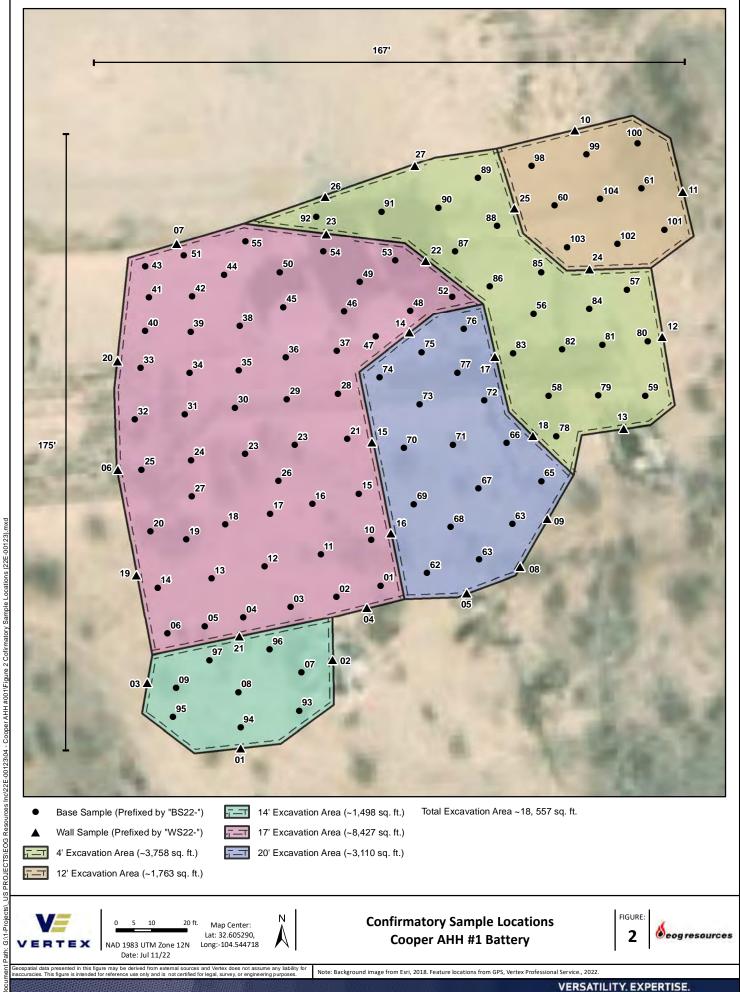
 $\overline{\mathbf{X}}$ Description of remediation activities

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: Chase Settle	Date: 08/30/2022
email:chase_settle@eogresources.com	Telephone:575-748-4171
OCD Only	
<u>OCD Olliv</u>	
Received by: OCD	Date: 8/30/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	Date: 2/24/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist

ATTACHMENT 2





ATTACHMENT 3

Client Name: EOG Resources, Inc. Site Name: Cooper AHH #1 Battery NMOCD Tracking #: NML01027336691 Project #: 21E-03278-04 Lab Report: 2109D87, 2112A21, 2110781, 2112853, 2112930

		Tab	le 2. Initia			ample Fiel	d Screen a	nd Labora	tory Resul				D feet bgs				
	Sample Descrip	otion	Fi	eld Screeni	ng					Petrole	eum Hydrod	arbons					
			8						Volatile					Extra	ctable		Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	 Extractable Organic Compounds (PetroFlag) 	(Definition Concentration	Benzene (mg/kg)	euene Lonene (mg/kg)	(mg/kg)	XV lenes (o&m) (mg/kg)	(b) Xylenes (p) (b)	(b) Xylenes (Total) (b) Xylenes (Total)	(s) (s) (s) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	영제 영제 (GRO) (GRO)	영화 Diesel Range Organics (형) (DRO)	adding Motor Oil Range Organics (68/(MRO)	main Total Petroleum 여서 Hydrocarbons (TPH)	(mg/gg)
BH21-01	0	9/22/2021	-	1,142	412	ND	ND	ND	ND	ND	ND	ND	ND	51	130	181	95
BH21-01	0.5	9/22/2021	-	-	687	-	-	-	-	-	-	-	-	-			
BH21-01	1	9/22/2021		99	850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230
BH21-02	0	9/22/2021		82	290	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	0.5	9/22/2021			582							-				-	
BH21-02	1	9/22/2021		1,000	330	ND	ND	ND	ND	ND	ND	ND	ND	160	440	600	210
BH21-03	0	9/22/2021		2,500	372	ND	ND	ND	ND	ND	ND	ND	ND	140	420	560	160
BH21-03	0.5	9/22/2021	-	-	527	-	-	-	-	-	-	-	-	-	-	-	-
BH21-03	1	9/22/2021	-	165	895	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	420
BH21-04	0	9/22/2021		1.249	220	ND	ND	ND	ND	ND	ND	ND	ND	72	380	452	ND
BH21-04	0.5	9/22/2021	-	-	155	-	-	-	-	-	-	-	-	-	-	-	-
BH21-04	1	9/22/2021	-	837	525	ND	ND	ND	ND	ND	ND	ND	ND	120	400	520	ND
BH21-04	2	10/8/2021	1	895	312	ND	ND	ND	ND	ND	ND	ND	ND	30	68	98	ND
BH21-04	3	10/8/2021	1	47	615	ND	ND	ND	ND	ND	ND	ND	ND	31	61	92	ND
BH21-04	4	10/8/2021	1	27	637	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	0	9/22/2021		2,500	185	ND	ND	ND	ND	ND	ND	ND	ND	1600	3200	4800	ND
BH21-05	0.5	9/22/2021	-	-	165	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	1	9/22/2021	-	597	435	ND	ND	ND	ND	ND	ND	ND	ND	110	360	470	ND
BH21-05	2	10/8/2021	1	220	157	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-05	3	10/8/2021	1	28	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-05	4	10/8/2021	1	189	182	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	5	10/8/2021	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	6	10/8/2021	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	7	10/8/2021	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	8	10/8/2021	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-06	0	10/8/2021	0	-	135	ND	ND	ND	ND	ND	ND	ND	ND	43	170	213	ND
BH21-06	1	10/8/2021	0	-	325	-	-	-	-	-	-	-	-	-	-	-	-
BH21-06	2	10/8/2021	1	530	247	-	-	-	-	-	-	-	-	-	-	-	-
BH21-06	3	10/8/2021	1	128	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-06	4	10/8/2021	0	83	177	-	-	-	-	-	-	-	-	-	-	-	-
BH21-07	0	10/8/2021	1	1,232	217	ND	ND	ND	ND	ND	ND	ND	ND	270	540	810	91
BH21-07	1	10/8/2021	1	808	415	-	-	-	-	-	-	-	-	-	-	-	-
BH21-07	2	10/8/2021	1	895	312	-	-	-	-	-	-	-	-	-	-	-	-
BH21-07	3	10/8/2021	1	47	615	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350
BH21-07	4	10/8/2021	1	27	637	-	-	-	-	-	-	-	-	-	-	-	-
BH21-08	0	10/8/2021	0	2	620	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	380
BH21-08	1	10/8/2021	0	17	602	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	340
BH21-08	2	10/8/2021	0	7	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210
BH21-08	3	10/8/2021	0	21	275	-	-	-	-	-	-	-	-	-	-	-	-
BH21-08	4	10/8/2021	0	25	332	-	-	-	-	-	-	-	-	-	-	-	-
BH21-09	0	10/8/2021	0	56	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
BH21-09	1	10/8/2021	0	48	407	-	-	-	-	-	-	-	-	-	-		-
BH21-09	2	10/8/2021	0	21	442	ND	ND	ND	ND	ND	ND	ND	ND	38	96	134	130
BH21-10	0	10/8/2021	0	70	332	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-10	1	10/8/2021	0	62	277	-	-	-	-	-	-	-	-	-	-	-	-
BH21-10	2	10/8/2021	0	31	297	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-11	0	10/8/2021	0	84	262	ND	ND	ND	ND	ND	ND	ND	ND	12	51	63	ND
BH21-11	1	10/8/2021	0	79	280	-	-	-	-	-	-	-	-	-	-	-	-
BH21-11	2	10/8/2021	0	51	265	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99

"ND" Not Detected at the Reporting Limit "-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



	Т	able 3. Confirmat	tory Samp	le Field Sc	reen and	Laboratory	/ Results -	Depth to	Groundwa	ater <50 fe	et bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro				
			ŝ			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	Extractable Organic 3 Compounds (PetroFlag)	(mdd) (md) (m	eue Beuzeue (mg/kg)	(g) (g) (g)	행) 영제 (GRO)	a) Diesel Range Organics (BY/ (DRO)	add) Motor Oil Range Organics (6 (MRO)	(000 + DKO) (mg/kg)	ଞ୍ଚି Total Petroleum କ୍ରି Hydrocarbons (TPH)	ඩ (ක්,රීස්) (ක්)
BS22-01	17	6/13/2022	-	51	133	ND	ND	ND	ND	ND	ND	ND	93
BS22-02	17	6/14/2022	-	20	590	ND	ND	ND	ND	ND	ND	ND	110
BS22-03	17	6/13/2022	-	57	91	ND	ND	ND	ND	ND	ND	ND	89
BS22-04	17	6/13/2022	-	39	273	ND	ND	ND	ND	ND	ND	ND	ND
BS22-05	17	6/13/2022	-	56	45	ND	ND	ND	ND	ND	ND	ND	ND
BS22-06	17	6/13/2022	-	16	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-07	14	6/13/2022	-	25	89	ND	ND	ND	ND	ND	ND	ND	ND
BS22-08	14	6/13/2022	-	35	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-09	14	6/13/2022	-	24	14	ND	ND	ND	ND	ND	ND	ND	ND
BS22-10	17	6/14/2022	-	48	666	ND	ND	ND	ND	ND	ND	ND	240
BS22-11	17	6/16/2022	-	68	512	ND	ND	ND	ND	ND	ND	ND	440
BS22-12	17	6/14/2022	-	21	521	ND	ND	ND	ND	ND	ND	ND	460
BS22-13	17	6/14/2022	-	24	493	ND	ND	ND	ND	ND	ND	ND	110
BS22-14	17	6/14/2022	-	63	218	ND	ND	ND	ND	ND	ND	ND	ND 250
BS22-15	17	6/14/2022	-	89 34	589 394	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	250 130
BS22-16 BS22-17	17 17	6/16/2022 6/15/2022	-	23	183	ND	ND	ND	ND	ND	ND	ND	ND
BS22-17 BS22-18	17	6/15/2022	-	47	523	ND	ND	ND	ND	ND	ND	ND	150
BS22-18 BS22-19	17	6/14/2022	_	28	133	ND	ND	ND	ND	ND	ND	ND	78
BS22-19 BS22-20	17	6/16/2022	-	33	376	ND	ND	ND	ND	ND	ND	ND	460
BS22-20	17	6/16/2022	-	56	302	ND	ND	ND	ND	ND	ND	ND	300
BS22-22	17	6/16/2022	-	28	246	ND	ND	ND	ND	ND	ND	ND	240
BS22-23	17	6/16/2022	-	12	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-24	17	6/15/2022	-	53	347	ND	ND	ND	ND	ND	ND	ND	600
BS22-24	17	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-25	17	6/15/2022	-	53	539	ND	ND	ND	ND	ND	ND	ND	370
BS22-26	17	6/15/2022	-	14	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-27	17	6/15/2022	-	27	242	ND	ND	ND	ND	ND	ND	ND	ND
BS22-28	17	6/15/2022	-	27	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-29	17	6/17/2022	-	45	431	ND	ND	ND	ND	ND	ND	ND	190
BS22-30	17	6/17/2022	-	59	511	ND	ND	ND	ND	ND	ND	ND	620
BS22-30	17	7/8/2022	0.3	-	18	ND	ND	ND	ND	ND	ND	ND	61
BS22-31	17	6/17/2022	-	52	575	ND	ND	ND	ND	ND	ND	ND	730
BS22-31 BS22-32	17 17	7/8/2022 6/17/2022	0.3	-	ND 438	ND	ND	ND	ND	ND	ND	ND	ND 600
BS22-32 BS22-32	17		- 0.3	51	438 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	600 61
BS22-32 BS22-33	17	7/8/2022 6/17/2022	0.5	- 29	226	ND ND	ND	ND	ND	ND ND	ND ND	ND ND	84
BS22-33 BS22-34	17	6/17/2022	-	23	122	ND	ND	ND	ND	ND	ND	ND	77
BS22-34 BS22-35	17	6/17/2022	-	15	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-35	17	6/17/2022	-	64	252	ND	ND	ND	ND	ND	ND	ND	210
BS22-37	17	6/17/2022	-	5	363	ND	ND	ND	ND	ND	ND	ND	280
BS22-38	17	6/17/2022	-	45	109	ND	ND	ND	ND	ND	ND	ND	110
BS22-39	17	6/17/2022	-	31	79	ND	ND	ND	ND	ND	ND	ND	ND
BS22-40	17	6/17/2022	-	41	131	ND	ND	ND	ND	ND	ND	ND	230
BS22-41	17	6/17/2022	-	58	212	ND	ND	ND	ND	ND	ND	ND	160
BS22-42	17	6/17/2022	-	65	349	ND	ND	ND	ND	ND	ND	ND	160
BS22-43	17	6/17/2022	-	28	138	ND	ND	ND	ND	ND	ND	ND	71
BS22-44	17	7/8/2022	0.2	-	124	ND	ND	ND	ND	ND	ND	ND	ND
BS22-45	17	6/17/2022	-	37	464	ND	ND	ND	ND	ND	ND	ND	250
BS22-46	17	6/17/2022	-	47	69	ND	ND	ND	ND	ND	ND	ND	120



	Т	able 3. Confirmat	ory Samp	le Field Sc	reen and	Laborator	y Results -	Depth to	Groundwa	ater <50 fe	et bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro				
			s			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	전 Volatile Organic Compounds ③ (PID)	표 Extractable Organic ③ Compounds (PetroFlag)	(mdd) (md) (m	auszuse Beuzene (mg/kg)	(84/84) BTEX (Total)	ଅଟି Gasoline Range Organics ନୁର୍ଗ (GRO)	a) Diesel Range Organics (BY/ (DRO)	a) Motor Oil Range Organics (a) (MRO)	(000 + DKO) (mg/kg)	ଞ୍ଚି Total Petroleum କ୍ରି Hydrocarbons (TPH)	(m) Chloride Concentration (a)
BS22-47	17	6/17/2022	-	22	0	ND	ND	ND	ND	ND	ND	ND	ND
BS22-48	17	7/6/2022	-	50	274	ND	ND	ND	ND	ND	ND	ND	500
BS22-49	17	7/6/2022	-	64	574	ND	ND	ND	ND	ND	ND	ND	100
BS22-50	17	7/6/2022	-	20	482	ND	ND	ND	ND	ND	ND	ND	120
BS22-51	17	7/6/2022	-	55	284	ND	ND	ND	ND	ND	ND	ND	120
BS22-52	17	7/6/2022	-	50	538	ND	ND	ND	ND	ND	ND	ND	120
BS22-53	17	7/6/2022	-	38	450	ND	ND	ND	ND	ND	ND	ND	120
BS22-54	17	7/6/2022	-	39	372	ND	ND	ND	ND	ND	ND	ND	63
BS22-55	17	7/6/2022	-	29	199	ND	ND	ND	ND	ND	ND	ND	ND
BS22-56	4	7/6/2022	-	49	532	ND	ND	ND	ND	ND	ND	ND	190
BS22-57	4	7/6/2022	-	39	492	ND	ND	ND	ND	ND	ND	ND	94
BS22-58	4	7/6/2022	-	42	327	ND	ND	ND	ND	ND	ND	ND	ND
BS22-59	4	7/6/2022	-	36	418	ND	ND	ND	ND	ND	ND	ND	80
BS22-60	12 12	7/6/2022 7/6/2022	-	33 24	138 279	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	150 110
BS22-61 BS22-62	20	7/8/2022	0.1	-	ND	ND	ND	ND	ND	ND	ND	ND	82
BS22-62 BS22-63	20	7/8/2022	0.1		63	ND	ND	ND	ND	ND	ND	ND	74
BS22-03 BS22-64	20	7/8/2022	0	-	96	ND	ND	ND	ND	ND	ND	ND	74
BS22-65	20	7/8/2022	0	-	131	ND	ND	ND	ND	ND	ND	ND	70
BS22-66	20	7/8/2022	0.1	-	ND	ND	ND	ND	ND	ND	ND	ND	69
BS22-67	20	7/8/2022	0.1	-	20	ND	ND	ND	ND	ND	ND	ND	69
BS22-68	20	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	68
BS22-69	20	7/8/2022	0.2	-	99	ND	ND	ND	ND	ND	ND	ND	65
BS22-70	20	7/8/2022	0.2	-	118	ND	ND	ND	ND	ND	ND	ND	ND
BS22-71	20	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	64
BS22-72	20	7/8/2022	0	-	124	ND	ND	ND	ND	ND	ND	ND	65
BS22-73	20	7/8/2022	0	-	118	ND	ND	ND	ND	ND	ND	ND	64
BS22-74	20	7/8/2022	0.1	-	ND	ND	ND	ND	ND	ND	ND	ND	61
BS22-75	20	7/8/2022	0.3	-	62	ND	ND	ND	ND	ND	ND	ND	69
BS22-76	20	7/8/2022	0.2	-	23	ND	ND	ND	ND	ND	ND	ND	ND
BS22-77	20	7/8/2022	0	-	167	ND	ND	ND	ND	ND	ND	ND	ND
BS22-78	4	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	67
BS22-79	4	7/8/2022	0	-	109	ND	ND	ND	ND	ND	ND	ND	70
BS22-80 BS22-81	4	7/8/2022 7/8/2022	0	-	47 217	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	74 70
BS22-81 BS22-82	4	7/8/2022	0	_	118	ND	ND	ND	ND	ND	ND	ND	70
B322-82 BS22-83	4	7/8/2022	0	-	83	ND	ND	ND	ND	ND	ND	ND	65
BS22-84	4	7/8/2022	0.2	-	161	ND	ND	ND	ND	ND	ND	ND	63
BS22-85	4	7/8/2022	0.2	-	150	ND	ND	ND	ND	ND	ND	ND	69
BS22-86	4	7/8/2022	0.2	-	285	ND	ND	ND	ND	ND	ND	ND	68
BS22-87	4	7/8/2022	0.1	-	219	ND	ND	ND	ND	ND	ND	ND	72
BS22-88	4	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	73
BS22-89	4	7/8/2022	0	-	370	ND	ND	ND	ND	ND	ND	ND	67
BS22-90	4	7/8/2022	0	-	230	ND	ND	ND	ND	ND	ND	ND	71
BS22-91	4	7/8/2022	0	-	269	ND	ND	ND	ND	ND	ND	ND	79
BS22-92	4	7/8/2022	0	-	96	ND	ND	ND	ND	ND	ND	ND	80
BS22-93	14	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-94	14	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-95	14	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-96	14	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND



	Т	able 3. Confirmat	tory Samp	le Field Sc	reen and	Laborator	/ Results -	Depth to	Groundwa	ater <50 fe	et bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro				
			ş			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	 Extractable Organic Compounds (PetroFlag) 	() () () () () () () () () () () () () (auszuna Beuzene (mg/kg)	Ba (영內) (1001) (1001)	ଅଟି Gasoline Range Organics ନୁର୍ଗ (GRO)) Ball Diesel Range Organics (영) (DRO)	a) Motor Oil Range Organics (a) (MRO)	(OxO + OXO) (mg/kg)	제 제 Total Petroleum 서 Hydrocarbons (TPH)	ය) (ක්)රීත් (ක්)
BS22-97	14	7/8/2022	0.1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS22-97 BS22-98	14	7/8/2022	0.1	-	277	ND	ND	ND	ND	ND	ND	ND	80
BS22-98	12	7/8/2022	0		223	ND	ND	ND	ND	ND	ND	ND	90
BS22-55 BS22-100	12	7/8/2022	0		310	ND	ND	ND	ND	ND	ND	ND	88
BS22-100 BS22-101	12	7/8/2022	0.1	_	186	ND	ND	ND	ND	ND	ND	ND	87
BS22-101 BS22-102	12	7/8/2022	0.1	_	200	ND	ND	ND	ND	ND	ND	ND	88
BS22-102 BS22-103	12	7/8/2022	0.1	-	184	ND	ND	ND	ND	ND	ND	ND	76
BS22-103 BS22-104	12	7/8/2022	0.1	-	161	ND	ND	ND	ND	ND	ND	ND	83
	0-4	7/5/2022	-	_	1,818	ND	ND	ND	ND	ND	ND	ND	ND
	4-8	7/5/2022	-	-	1,818	ND	ND	ND	ND	ND	ND	ND	73
WS22-01	8-12	7/5/2022	-	-	165	ND	ND	ND	ND	ND	ND	ND	72
	12-16	7/5/2022	-	9	2,234	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	7/5/2022	-	-	1,824	ND	ND	ND	ND	ND	ND	ND	ND
	4-8	7/5/2022	-	-	2,351	ND	ND	ND	ND	ND	ND	ND	ND
WS22-02	8-12	7/5/2022	-	9	2,206	ND	ND	ND	ND	ND	ND	ND	ND
	12-16	7/5/2022	-	-	115	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	7/5/2022	-	-	2,564	ND	ND	ND	ND	ND	ND	ND	190
	4-8	7/5/2022	-	17	2,304	ND	ND	ND	ND	ND	ND	ND	190
WS22-03	8-12	7/5/2022	-	1/	350	ND	ND	ND	ND	ND	ND	ND	140
	12-14	7/5/2022			2,665	ND	ND	ND	ND	ND	ND	ND	140
	0-4	7/5/2022	-	-	2,312	ND	ND	ND	ND	ND	ND	ND	ND
	4-8	7/5/2022	_	50	2,312	ND	ND	ND	ND	ND	ND	ND	ND
WS22-04	8-12	7/5/2022			2,053	ND	ND	ND	ND	ND	ND	ND	ND
	12-17	7/5/2022	-	-	2,033	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	7/5/2022	-	_	130	ND	ND	ND	ND	ND	ND	ND	ND
	0-8	7/5/2022	_	8	2,351	ND	ND	ND	ND	ND	ND	ND	ND
WS22-05	8-12	7/5/2022	-	-	2,307	ND	ND	ND	ND	ND	ND	ND	ND
	12-20	7/5/2022	-	-	2,307	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	7/5/2022	-	27	1,770	ND	ND	ND	ND	ND	ND	ND	130
	4-8	7/5/2022	-	- 27	1,770	ND	ND	ND	ND	ND	ND	ND	130
WS22-06	8-12	7/5/2022	_	_	1,345	ND	ND	ND	ND	ND	ND	ND	170
	12-17	7/5/2022	-	-	260	ND	ND	ND	ND	ND	ND	ND	110
	0-4	7/5/2022	-	-	1,078	ND	ND	ND	ND	ND	ND	ND	ND
	4-8	7/5/2022	_	_	135	ND	ND	ND	ND	ND	ND	ND	ND
WS22-07	8-12	7/5/2022	-	9	1,915	ND	ND	ND	ND	ND	ND	ND	ND
	12-17	7/5/2022	-	-	1,915	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	7/5/2022	_	82	1,081	ND	ND	ND	ND	ND	ND	ND	320
	0-4	7/5/2022	-	- 62	870	ND	ND	ND	ND	ND	ND	ND	320
WS22-08	8-12	7/5/2022	-	-	425	ND	ND	ND	ND	ND	ND	ND	330
	12-20	7/5/2022	-	-	760	ND	ND	ND	ND	ND	ND	ND	280
	0-4	7/5/2022	-	-	395	ND	ND	ND	ND	ND	ND	ND	300
	0-4	7/5/2022	-	-	1,326	ND	ND	ND	ND	ND	ND	ND	290
WS22-09	8-12	7/5/2022	-	-	962	ND	ND	ND	ND	ND	ND	ND	310
	12-20	7/5/2022	-	49	962	ND	ND	ND	ND	ND	ND	ND	280
	0-4	7/5/2022	_					ND			ND		
WS22-10	4-8	7/5/2022	-	- 0	605 457	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	480 470
	4-8 8-12	7/5/2022	-	-	533	ND ND	ND	ND ND	ND	ND	ND ND	ND	470
	0-12	1/3/2022	-	-	555		טא						440



	Т	able 3. Confirma	tory Samp	le Field Sc	reen and	Laborator	y Results -	Depth to	Groundwa	ater <50 fe	et bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro				
			s			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	Extractable Organic 3 Compounds (PetroFlag)	(mdd) (mdd) (mdd)	eus Beuzeue (mg/kg)	Ba (영內) (영內)	행) Basoline Range Organics (GRO)) Bal Diesel Range Organics (bRO)	Ball Motor Oil Range Organics (BA/RO)	(OXO + DKO) (mg/kg)	월 10tal Petroleum 영국 Hydrocarbons (TPH)	ම කි. Chloride Concentration (කි
	0-3	7/5/2022	-	103	0	ND	ND	ND	ND	ND	ND	ND	ND
	3-6	7/5/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
WS22-11	6-9	7/5/2022	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	9-12	7/5/2022	-	-	38	ND	ND	ND	ND	ND	ND	ND	110
WS22-12	4	7/5/2022	-	54	343	ND	ND	ND	ND	ND	ND	ND	64
WS22-13	4	7/5/2022	-	35	577	ND	ND	ND	ND	ND	ND	ND	300
WS22-14	17-20	7/8/2022	0.2	-	33	ND	ND	ND	ND	ND	ND	ND	62
WS22-15	17-20	7/8/2022	0.1	-	109	ND	ND	ND	ND	ND	ND	ND	65
WS22-16	17-20	7/8/2022	0.1	-	196	ND	ND	ND	ND	ND	ND	ND	70
	4-8	7/8/2022	0	-	70	ND	ND	ND	ND	ND	ND	ND	62
WS22-17	8-12	7/8/2022	0	-	118	ND	ND	ND	ND	ND	ND	ND	62
11322 17	12-16	7/8/2022	0.1	-	41	ND	ND	ND	ND	ND	ND	ND	63
	16-20	7/8/2022	0.1	-	138	ND	ND	ND	ND	ND	ND	ND	67
	4-8	7/8/2022	0	-	27	ND	ND	ND	ND	ND	ND	ND	70
WS22-18	8-12	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	87
	12-16	7/8/2022	0.1	-	105	ND	ND	ND	ND	ND	ND	ND	77
	16-20	7/8/2022	0.2	-	167	ND	ND	ND	ND	ND	ND	ND	67
	0-4	7/8/2022	0	-	73	ND	ND	ND	ND	ND	ND	ND	77
WS22-19	4-8	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	76
	8-12	7/8/2022	0.1	-	115	ND	ND	ND	ND	ND	ND	ND	75
	12-17	7/8/2022	0.1	-	47	ND	ND	ND	ND	ND	ND	ND	78
	0-4	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	75
WS22-20	4-8 8-12	7/8/2022 7/8/2022	0.2	-	154	ND	ND	ND	ND	ND	ND	ND	70 73
	12-17	7/8/2022	0.1	-	72 18	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	73
WS22-21	12-17	7/8/2022	0.2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
W322 21	4-8	7/8/2022	0	_	ND	ND	ND	ND	ND	ND	ND	ND	75
	8-12	7/8/2022	0.1	-	77	ND	ND	ND	ND	ND	ND	ND	69
WS22-22	12-15	7/8/2022	0.1	-	ND	ND	ND	ND	ND	ND	ND	ND	73
	15-17	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	68
	4-8	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
W(222.22	8-12	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	81
WS22-23	12-15	7/8/2022	0.1	-	99	ND	ND	ND	ND	ND	ND	ND	78
	15-17	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	69
WS22-24	4-8	7/8/2022	0.2	-	427	ND	ND	ND	ND	ND	ND	ND	86
VV 322-24	8-12	7/8/2022	0.3	-	311	ND	ND	ND	ND	ND	ND	ND	87
WS22-25	4-8	7/8/2022	0.2	-	292	ND	ND	ND	ND	ND	ND	ND	86
	8-12	7/8/2022	0.1	-	360	ND	ND	ND	ND	ND	ND	ND	90
WS22-26	0-4	7/8/2022	0	-	66	ND	ND	ND	ND	ND	ND	ND	83
WS22-27	0-4	7/8/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	65

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria

Bold and green-shaded indicates re-collection of sample previously in exceedance of NMOCD Closure Criteria



ATTACHMENT 4



Client:	EOG Resources Inc.	Inspection Date:	12/16/2021
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	12/17/2021 7:04 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	limes
Arrived at Site	12/16/2021 8:00 AM		
Departed Site	12/16/2021 4:00 PM		
		Field Not	

8:38 Continuance of excavation to finish confirmation sampling

10:27 On 14' excavation, base is narrower than top due to benching to prevent cave-in. Schematic outline marks outer edge of top of excavation.

15:19 More hot base samples west of battery

Next Steps & Recommendations

1 Stop work until discussion with client, finish excavation and confirmation sampling







Daily Site Visit Signature

Inspector: Sally Carttar

Signature:

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Client:	EOG Resources Inc.	Inspection Date:	4/18/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/18/2022 11:20 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/18/2022 8:30 AM		
Departed Site	4/18/2022 4:15 PM		
		Field Note	2S

9:17 Brought a loader on site first thing

9:32 Will continue sampling and digging to strictest closure criteria

10:02 Removing staining and cleaning up north wall so I can get some samples

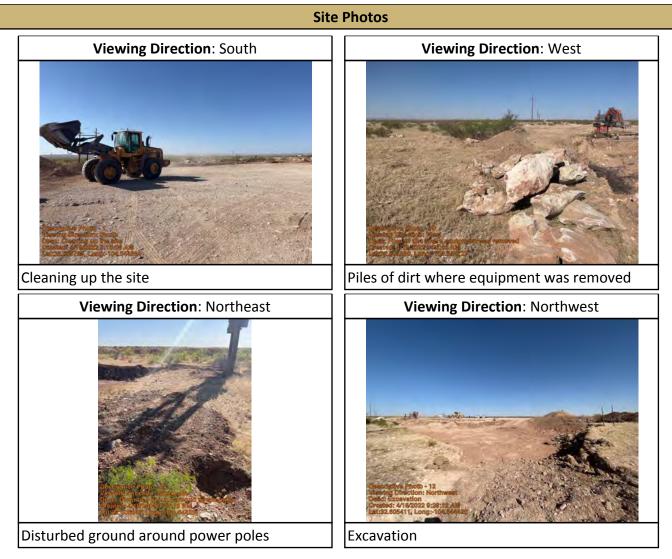
13:52 Tanks too hot to stay

Next Steps & Recommendations

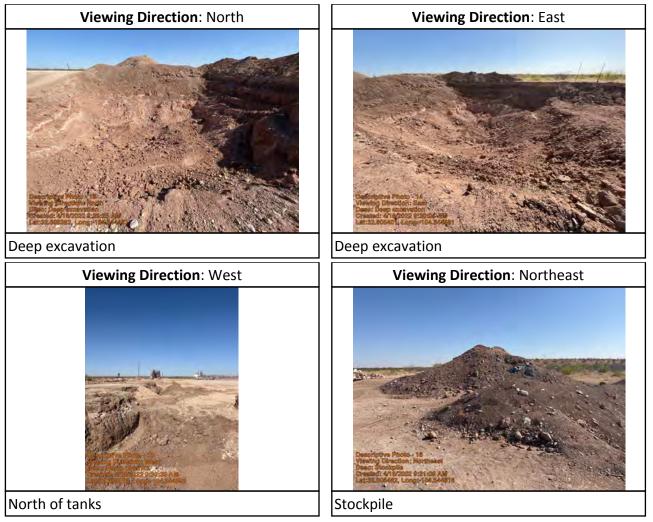
1 Load up dirt

2 Continue with sampling











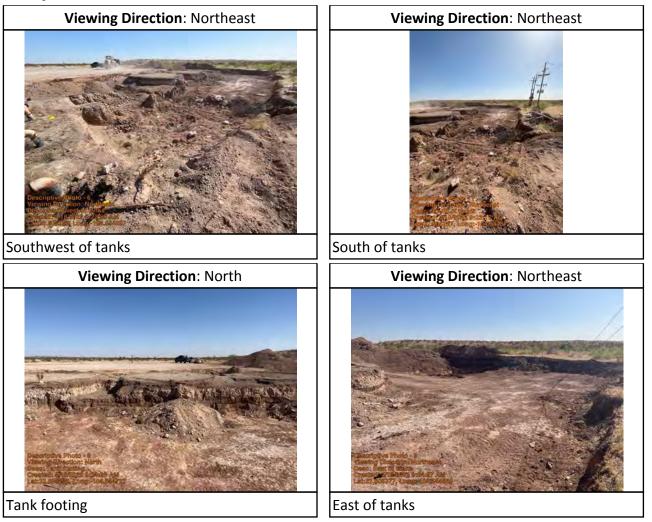
Viewing Direction: South	Viewing Direction: Southeast
	Beering Direction: Bettings Development of the Table Development of the
Pulled this out	Taking a foot out of the 12'
Viewing Direction: West	Viewing Direction: South
The story of the s	
Same line continues, we excavated it to the edge of the excavation	Lots of dirt piles left over from battery removal

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Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1

Date: (SD: 4/18/22)

Sampling											
	Field Screening						Data Collection				
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-09	13.0	0	50	0.82	25.4	894					
BH22-01	4.0	0	318	0.60	24.2	629					
BH22-02	4.0	0		17.38	23.2	24891					
BH22-03	4.0	0	1030	0.72	24.6	785					
BH22-04	4.0	0	125	0.22	24.6	63					
BH22-05	2.0	0	176	0.34	25.1	215					
BH22-06	4.0	0	75	0.33	24.6	222					
BH22-07	4.0	0	170	0.22	24.5	67					
BH22-08	4.0	0	164	0.14	24.8	0					
BH22-09	4.0	0	110	0.67	31.5	414					
BH22-10	4.0	0	116	0.51	31.2	196					
BH22-11	4.0	0	67	0.57	26.4	490					



Client:	EOG Resources Inc.	Inspection Date:	4/19/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/19/2022 10:48 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	4/19/2022 11:45 AM						
Departed Site	4/19/2022 3:45 PM						
Field Notes							
12:03 Checked in with	WWS, completed safety mee	eting					

14:03 Loading three more trucks

14:20 Clean under the east tank

Next Steps & Recommendations

1 Continue sampling on the west side

2 Move on to confirmation



Site Photos Viewing Direction: Northeast Viewing Direction: West Taking down the fence to prepare for more Battery foundation removed excavation Viewing Direction: Northeast Viewing Direction: East Stockpile after two bellies Cleaned up west end of site, moving dirt to stockpile

Run on 4/19/2022 10:48 PM UTC







Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 4/19/22)

Sampling											
		Field Screening							Data Co	ollection	
		Hydro	carbon	Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	4.0		78	0.48	25.9	382					



Client:	EOG Resources Inc.	Inspection Date:	4/20/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/20/2022 9:53 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/20/2022 8:45 AM		
Departed Site	4/20/2022 2:45 PM		

Field Notes

8:54 WWS exchanging trackhoes for one with working A/C

9:54 Running samples from the west side, planning to dig out deep areas next.

9:57 Someone should be coming out today or tomorrow to remove the meter and associated lines

10:34 Samples from west side all hot on chlorides, will continue excavation.

11:28 Loading 4 trucks

11:48 Loading another truck

14:19 Loading four trucks, one having mechanical trouble left empty (three loads to landfill)

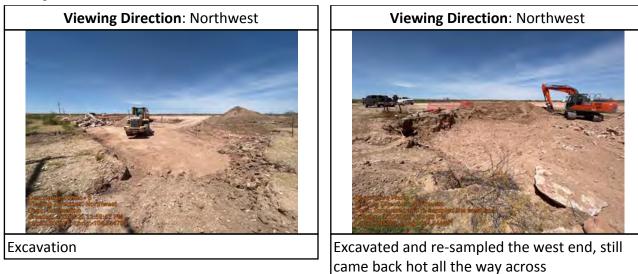
Next Steps & Recommendations

- 1 Sample the west end again, now that he's taken out more
- 2 Continue with walls and base











Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 4/20/22)

	Sampling										
				Field	Screenii	ng		Data Co	ollection		
		Hydro	Hydrocarbon Chloride								
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	3.0			1.07	22.2	1394					
BES22-01	4.0			2.40	25.8	3157					
BES22-02	3.0			2.46	21.4	3435					
BES22-02	4.0			2.27	24.7	3017					
BES22-03	3.0			1.88	21	2615					
BES22-03	4.0			2.50	24.9	3341					



Client:	EOG Resources Inc.	Inspection Date:	4/21/2022					
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/21/2022 9:35 PM					
Client Contact Name:	Chase Settle	API #:						
Client Contact Phone #:	575-703-6537							
Unique Project ID		Project Owner:						
Project Reference #		Project Manager:						
Summary of Times								
Arrived at Site	4/21/2022 8:15 AM							
Departed Site	4/21/2022 3:45 PM							
		Field Note	25					
8:23 Loading first rou	und of trucks and servicing tra	ack hoe						
9:25 6 trucks so far to	oday sent to landfill							
11:51 4 more trucks lo	baded							
12:15 One more truck								

14:15 Another 3 trucks, planned total today will be 17

14:42 2 more trucks

Next Steps & Recommendations

- 1 Clean up north and south walls of the west section
- 2 Sample base under center and west tanks
- 3 Continue with confirmation and closure





Run on 4/21/2022 9:35 PM UTC



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 4/21/22)

	Sampling										
				Field	Screenii	ng		Data Co	llection		
	Hydrocarbon			Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	6.0			1.98	23.9	2633					
BES22-02	6.0			1.81	23.6	2401					
BES22-03	6.0			2.48	24.8	3316					
BES22-04	0.0		75	0.49	23.4	505					
BES22-05	0.0		113	0.52	23.9	526					
WES22-06	6.0			0.95	23.9	1147					
WES22-07	6.0		63	0.54	23.5	572					



Client:	EOG Resources Inc.	Inspection Date:	4/22/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/22/2022 10:41 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/22/2022 8:15 AM		
Departed Site	4/22/2022 3:30 PM		

Field Notes

9:09 Loaded one truck, only have three loads planned for the day.

11:55 Second of three bellies

12:59 Durango stopped by, planning to have someone come out to take down the meter run on Monday

13:28 Wind has picked up significantly on the last hour.

15:08 Clean on chlorides under the ramp and almost clean to the south.

15:18 Big rocks have been a challenge making flat walls and base of the excavation

Next Steps & Recommendations

1 Continue working on north and south walls and base of the western section

2 Clean up the base of the rest of the excavation

3 Clean up the southwest corner once the meter run is removed, hopefully on Monday



Site Photos Viewing Direction: East Viewing Direction: Northwest Taking some base samples to characterize the Discoloration under the meter run on the west excavation since infrastructure removal, now wall that the base has been cleaned up Viewing Direction: Southeast Viewing Direction: Southeast Scraping the base again, since it was all hot After the base was scraped up

Run on 4/22/2022 10:41 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	4/25/2022			
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/25/2022 11:10 PM			
Client Contact Name:	Chase Settle	API #:				
Client Contact Phone #:	575-703-6537					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
		Summary of T	limes			
Arrived at Site	4/25/2022 8:45 AM					
Departed Site	4/25/2022 4:00 PM					
Field Notes						

8:49 WWS on site

9:22 Hoping to see Durango today to have the meter run removed

15:01 Durango stopped by to look at the riser, close up the valves, and make a plan. Hopefully there will be a crew out tomorrow to pull it.

Next Steps & Recommendations

1 Clean up base and southwest corner walls

2 Take some samples to determine how far west we have to go from meter



Site Photos Viewing Direction: East Viewing Direction: West Starting sampling on the north and south walls Excavation this morning of the west end while WWS services the trackhoe Viewing Direction: South Viewing Direction: Southeast North wall clean, still working on south wall More large rocks in this corner

Run on 4/25/2022 11:10 PM UTC





Got the go-ahead from Durango to start uncovering the manifold

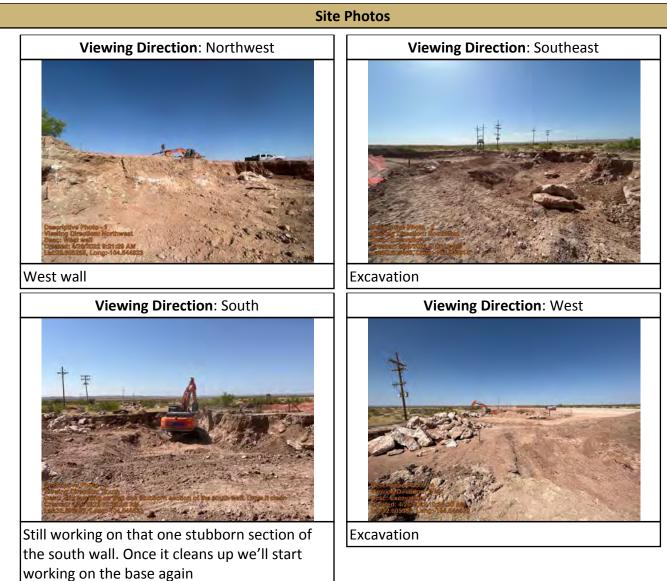


Client:	EOG Resources Inc.	Inspection Date:	4/26/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/26/2022 9:31 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	4/26/2022 8:30 AM						
Departed Site	4/26/2022 3:45 PM						
		Field Note	es				
9:17 Loading the first	truck						
9:47 Big rocks in the s	southwest corner are slowing	progress					
11:49 Loading the seco	ond truck						
14:33 Meter run still h	14:33 Meter run still here, no sign of roustabouts						
15:01 Third truck load							
15:25 Still not clean in the southwest corner							

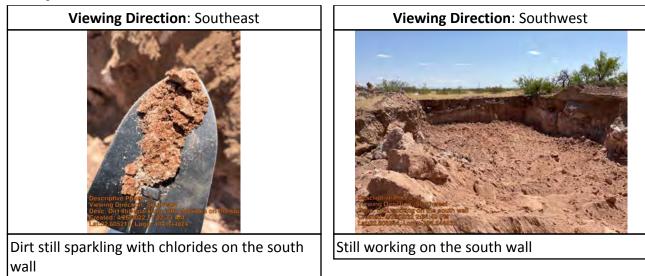
Next Steps & Recommendations

- **1** Get the meter run removed
- **2** Clean up the southwest corner
- **3** Get clean on the base











Client:	EOG Resources Inc.	Inspection Date:	4/27/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/27/2022 10:20 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/27/2022 8:15 AM		
Departed Site	4/27/2022 4:00 PM		

Field Notes

9:12 Section of south wall still hot, will start there. Hoping to have it clean today so we can move on to the base

9:13 No sign yet of roustabouts, so we can't clean up the west wall

11:34 Two trucks loaded first thing this morning, loading the third now

13:52 Fourth truck

Next Steps & Recommendations

1 Follow the salt in the southwest corner and base

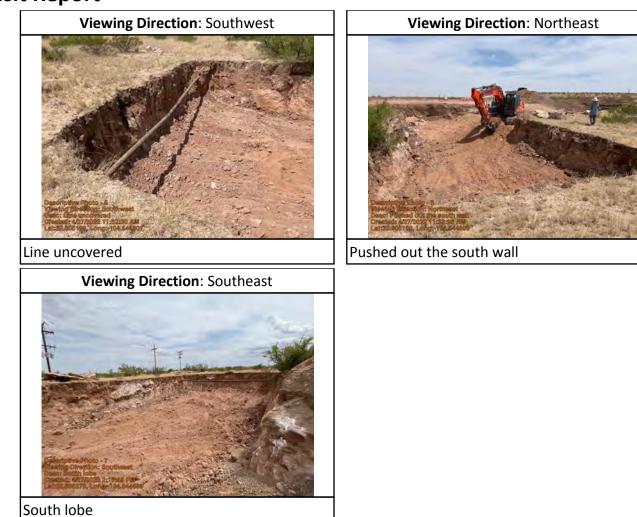




around it



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Client:	EOG Resources Inc.	Inspection Date:	4/28/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/28/2022 11:00 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/28/2022 8:45 AM		
Departed Site	4/28/2022 3:40 PM		

Field Notes

12:01 Arrived on site, did walkthrough of site with Terrel Wyllard from Wild West

10:20 Collected and ran samples from south and west wall of lobe on southwest end of excavation

11:04 Began removing riser from west side of location- discovered pressure and liquid still in line

10:41 Vacuum truck arrived on location to remove liquid from line

11:04 Vacuum truck completed removing liquid from line and left location

11:29 Capped west end of line connected to riser

11:48 Capped west end of line connected to riser

12:00 Began removing riser from location

12:32 Completed removing riser from location

14:48 Resumed excavating wall on west side of location in former location of riser @ ~1330

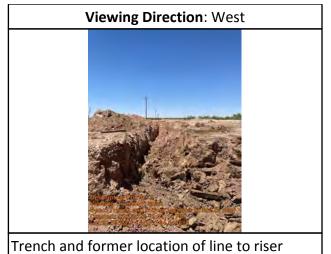
Next Steps & Recommendations

1 Continue wall excavation to west and base excavation





Site Photos Viewing Direction: East Viewing Direction: East Riser and excavated line on west side of Cut section of pipe and ditch after riser was location removed Viewing Direction: East Viewing Direction: West Former location of riser West wall beneath former location of riser







Daily Site Visit Signature

Inspector: McKitric Wier

Signature) Ì Signature:

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Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 4/28/22)

Sampling											
		Field Screening						Data Co	llection		
Hydrocarbon Chloride											
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-02	4.0			0.96	26.6	1044					



Client:	EOG Resources Inc.	Inspection Date:	4/29/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	4/29/2022 9:32 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Γimes
Arrived at Site	4/29/2022 8:15 AM		
Departed Site	4/29/2022 2:30 PM		

Field Notes

13:05 Arrived on location @ ~8:15 and discussed plans for the day with Wild West crew

13:06 Began clearing large boulder debris from base of west end of excavation to prep for collection of base samples

13:07 Collected samples from base of west end of excavation

14:23 Cleared 1ft of base from central section of excavation

Next Steps & Recommendations

1





Run on 4/29/2022 9:32 PM UTC



Daily Site Visit Signature

Inspector: McKitric Wier

Signature:

Run on 4/29/2022 9:32 PM UTC

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Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 4/29/22)

Sampling											
		Field Screening						Data Co	ollection		
Hydrocarbon Chloride											
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	8.0			1.46	23.1	1918					



Client:	EOG Resources Inc.	Inspection Date:	5/3/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/3/2022 10:26 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	5/3/2022 8:00 AM						
Departed Site	5/3/2022 3:30 PM						
		Field Note	es				
8:56 Two trucks load	ed						
8:57 Pot holing base	to find clean						
10:50 Pothole 5 clean	at 9', clearing the quadrant to	o 9' to get a composite	while we continue with the other 4 potholes				
10:58 Loading a third t	ruck						
11:21 Loading the four	rth truck						
14:09 Loading truck #6	14:09 Loading truck #6						

Next Steps & Recommendations

- 1 Excavate around BS22-04 to 11', get a composite sample, excavate to 20' if not clean
- **2** Pothole out to the south of the pad
- **3** Have WWS excavate out on Thursday and Friday

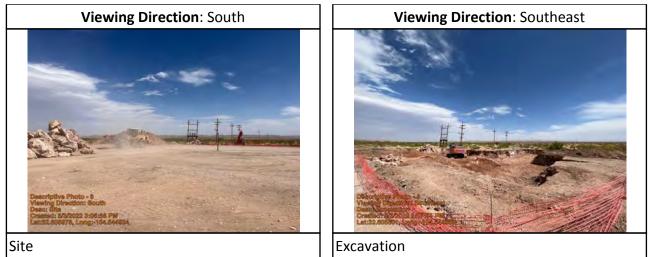


Site Photos Viewing Direction: East Viewing Direction: North 2+ 8522-03 1 CETTLEDO dur B522-01 ccleanish 8' 10 BS22. 02 BS22-05 off BS22-04 oto - 10 Sketch Excavation Viewing Direction: South Viewing Direction: South Pothole 1 Pothole 2











Daily Site Visit Signature

Inspector: Sally Carttar

Signature:

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Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 5/3/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	11.0			1.10	18	1619				\checkmark	
BES22-01	13.0			1.58	22.4	2121				\checkmark	
BES22-01	15.0			0.86	26.8	891				\checkmark	
BES22-01	17.0			0.69	22.9	815				\checkmark	
BES22-02	11.0			1.15	18	1691				\checkmark	
BES22-02	13.0			0.81	23.1	979				\checkmark	
BES22-02	15.0			0.62	23.8	675				\checkmark	
BES22-02	16.0			0.37	25.9	223				\checkmark	
BES22-03	9.0			0.63	18	941				\checkmark	
BES22-03	11.0			1.44	22.8	1902				\checkmark	
BES22-03	13.0			1.00	22.8	1267				\checkmark	
BES22-03	15.0			0.61	22.3	725				\checkmark	
BES22-04	9.0			2.12	19	3048				\checkmark	
BES22-04	11.0			1.75	23.7	2310				\checkmark	
BES22-04	13.0			2.07	22.4	2828				\checkmark	
BES22-04	15.0			3.90	22.9	5448				\checkmark	
BES22-04	17.0			6.14	26	8547				\checkmark	
BES22-04	20.0			3.05	22.1	4256				\checkmark	
BES22-05	9.0			0.43	19.2	600				\checkmark	
BES22-05	9.0			1.58	22	2138				\checkmark	



Client:	EOG Resources Inc.	Inspection Date:	5/4/2022				
Site Location Name:		Report Run Date:	5/4/2022 10:29 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
		Summary of ⁻	Гimes				
Arrived at Site	5/4/2022 8:00 AM						
Departed Site	5/4/2022 3:30 PM						
		Field Note	es				
8:32 Loading first two	o trucks						
8:32 Durango stopped	d by for the one-call						
8:54 Starting trenching south into pasture east of dogleg							
9:03 Loading a third t	9:03 Loading a third truck						
9:27 Fighting more rocks south of the south wall							
9:57 Getting very windy							
11:11 Two more trucks (now 5 so far)							
13:53 Loading truck 7							
14:12 Loading another truck							
14:27 Truck # 9							

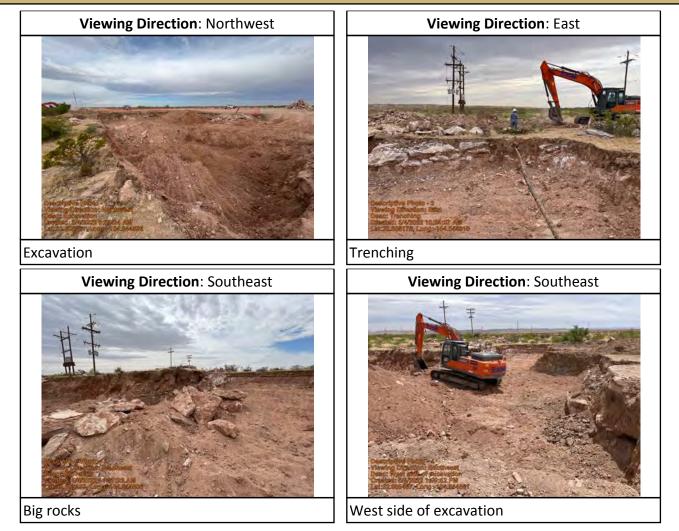
Next Steps & Recommendations

1 Dig to sketch, then re-test base and walls with composites

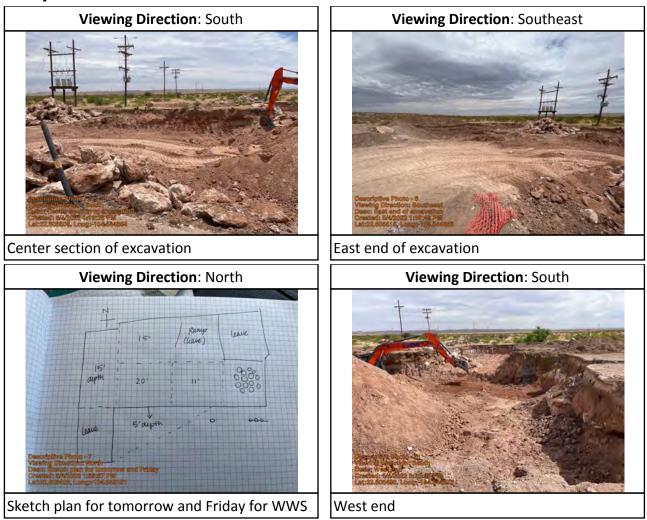
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Site Photos











Stockpile

Run on 5/4/2022 10:29 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	5/9/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/10/2022 2:51 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	5/9/2022 8:30 AM		
Departed Site	5/9/2022 2:00 PM		

Field Notes

9:36 Arrived on site and discussed operations plan with Jeremy from Wild West

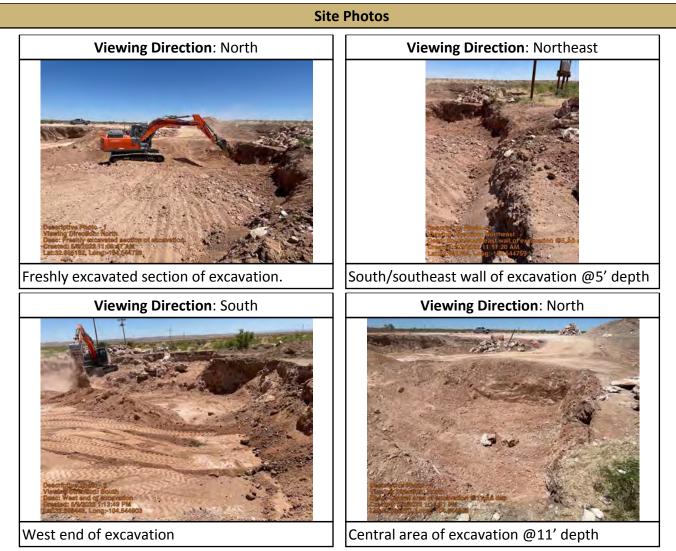
11:07 Began digging section of excavation down to 11'

12:53 Removed excavated soil from pit and began digging down to 7' in south central quadrant of pit

Next Steps & Recommendations

1 Continue excavating pit







Daily Site Visit Signature

Inspector: McKitric Wier

Signature: Signature

•



Client:	EOG Resources Inc.	Inspection Date:	5/10/2022							
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/10/2022 9:57 PM							
Client Contact Name:	Chase Settle	API #:								
Client Contact Phone #:	575-703-6537									
Unique Project ID		Project Owner:								
Project Reference #		Project Manager:								
		Summary of	Fimes							
Arrived at Site	5/10/2022 8:25 AM									
Departed Site	5/10/2022 3:15 PM									
	Field Notes									

13:50 Arrived on site and began loading trucks.

13:50 Collected base samples @ 7' in south central portion of excavation. Samples came back hot for chlorides

13:51 Excavated south central portion of pit down to 8' and screened base samples. Came back hot on chlorides.

13:52 Excavated south central portion of pit down to 9'

Next Steps & Recommendations

1 Continue excavation of pit



Site Photos Viewing Direction: North Viewing Direction: Northeast Excavated south central portion of pit down to Wall of south central portion of pit and 8' excavator Viewing Direction: South East wall of south central portion of excavation area

Run on 5/10/2022 9:57 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	5/11/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/11/2022 10:25 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	5/11/2022 8:30 AM		
Departed Site	5/11/2022 3:30 PM		

Field Notes

11:40 Arrived on site and field screened samples in south central portion of excavation at 9', which came back hot on chlorides

14:34 Excavated south central portion of pit down to 10'

15:13 Continued excavating south central section of pit and began moving spoils pile inside pit to create more room for excavator

Next Steps & Recommendations

1 Continue excavation operations



Site Photos Viewing Direction: Northeast Viewing Direction: Northwest South central portion of pit excavated to 11' South central portion of pit excavated to 11' Viewing Direction: Southwest Excavated portion of south central section of pit

Run on 5/11/2022 10:25 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	5/12/2022						
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/12/2022 10:22 PM						
Client Contact Name:	Chase Settle	API #:							
Client Contact Phone #:	575-703-6537								
Unique Project ID		Project Owner:							
Project Reference #		Project Manager:							
		Summary of 1	Times						
Arrived at Site	5/12/2022 8:10 AM								
Departed Site	5/12/2022 3:30 PM								
	Field Notes								

9:05 Began loading trucks and pulling back rocks/rebuilding ramp to prepare for excavation of south wall of pit

13:17 Began cleaning up south wall to take composite samples along length of wall.

14:53 Completed cleaning up wall

Next Steps & Recommendations

1 Continue excavation of pit





Site Photos Viewing Direction: South Viewing Direction: Northeast Rock pile and south wall of excavation site South wall of excavation site Viewing Direction: Northeast Viewing Direction: South South wall after clearing rock debris out of the South wall at 12' way



Client:	EOG Resources Inc.	Inspection Date:	5/16/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/16/2022 9:17 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	5/16/2022 8:45 AM		
Departed Site	5/16/2022 3:40 PM		
		Etald No.	

Field Notes

9:48 Arrived on site and walked through site with new employees from Wild West

14:04 Began taking the wall in the south central portion of excavation back in 1' increments and field screening wall samples.

15:03 Cleaned up piles of large rocks excavated from pit and loaded trucks during field screening and wall excavation

Next Steps & Recommendations

1 Continue excavation of wall





Site Photos Viewing Direction: East Viewing Direction: South Fluid from transformer dropped into bottom of Excavation of south central wall portion of pit pit. Viewing Direction: Southwest Excavated section of south central portion of pit



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 5/16/22)

Sampling											
Field Screening									Data Co	llection	
		Hydro	carbon		Chloride						
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-01	5.0			1.00	25.7	1141					
WES22-02	5.0			1.30	23.8	1656					
WES22-03	5.0			0.76	24.7	838					
WES22-04	5.0			1.14	25	1373					



Client:	EOG Resources Inc.	Inspection Date:	5/17/2022							
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/17/2022 11:02 PM							
Client Contact Name:	Chase Settle	API #:								
Client Contact Phone #:	575-703-6537									
Unique Project ID		Project Owner:								
Project Reference #		Project Manager:								
		Summary of T	limes							
Arrived at Site	5/17/2022 9:27 AM									
Departed Site	5/17/2022 4:00 PM									
	Field Notes									

9:59 Resume excavation of south wall, base of pit, and begin loading trucks

14:59 Collected clean sample from south wall, began lowering base of site

15:00 Lowered south central portion of base down to 10' and cleaned up walls in central portion of pit

15:01 Began cleaning up ramp while continuing to field screen samples

Next Steps & Recommendations

1 Continue excavation of base of site



Site Photos Viewing Direction: South Viewing Direction: East West end of excavation South wall in central portion of excavation Viewing Direction: Northeast Viewing Direction: West South wall in central portion of excavation North wall in central portion of excavation



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 5/17/22)

	Sampling										
				Field	Screenin	ıg		Data Collection			
		Hydro	carbon		Chloride						
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	5.0			1.69	26.4	2107					
BES22-02	5.0			1.72	26.3	2154					
BES22-03	7.0			1.37	28.2	1567					
BES22-04	7.0			1.05	26.8	1166					
BES22-05	9.0			1.45	29.8	1613				\checkmark	
BES22-06	9.0			1.34	26.6	1593					
WES22-01	6.0		82	0.57	27.6	438					
WES22-02	4.0			1.06	25.8	1223					



Client:	EOG Resources Inc.	Inspection Date:	5/18/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/18/2022 10:52 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	5/18/2022 8:10 AM		
Departed Site	5/18/2022 3:55 PM		

Field Notes

13:01 Arrived on location and began loading trucks and working west wall back while conducting field screens.

13:08 Uncovered odorous grey/black stained soil while excavating west wall

13:09 Uncovered open end of unknown pipe in vicinity of west wall

13:45 Began excavating and field screening soil around pipe to prep for cutting and capping pipe while continuing to excavate west wall

15:18 Chased pipe back into wall 8 feet

15:19 Pulled clean samples from west wall, began excavating west portion of south wall and base on west portion of pit

Next Steps & Recommendations

1 Continue excavation of west side of pit



Site Photos Viewing Direction: West Viewing Direction: West Discolored soil with hydrocarbon odor on Encountered open pipe while excavating west south side of former pipe location on west wall wall Viewing Direction: South Viewing Direction: Northwest Pipe prior to cutting and capping during Excavated section of west wall and pipe excavation

Run on 5/18/2022 10:52 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	5/19/2022							
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/19/2022 10:28 PM							
Client Contact Name:	Chase Settle	API #:								
Client Contact Phone #:	575-703-6537									
Unique Project ID		Project Owner:								
Project Reference #		Project Manager:								
		Summary of	Times							
Arrived at Site	5/19/2022 8:10 AM									
Departed Site	5/19/2022 3:30 PM									
	Field Notes									

9:36 Continue excavation of south wall and base on west side of pit

15:23 Excavated as far south as possible with pipe in the way and moved to focus on base in west end of pit

15:23 Excavated base on west end of pit down to 10'

Next Steps & Recommendations

1 Continue excavation of west end of pit and south wall



Site Photos



Pipe crossing location and excavated section of south wall of pit

Run on 5/19/2022 10:28 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	5/23/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/23/2022 10:31 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	limes
Arrived at Site	5/23/2022 8:10 AM		
Departed Site	5/23/2022 3:50 PM		
		Field Not	

Field Notes

14:50 Excavate base at west end of pit and south wall at west end of pit while field screening samples

14:51 Excavated west end of pit to 12'. Samples came back clean at 12'

14:57 Excavated south wall of pit in west section out 5'. Samples still returning hot

14:57 Loaded 15 trucks

Next Steps & Recommendations

1



Client:	EOG Resources Inc.	Inspection Date:	5/24/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/24/2022 10:07 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	5/24/2022 8:35 AM		
Departed Site	5/24/2022 3:25 PM		

Field Notes

9:14 Begin truck loading and excavation of the East base of pit

15:00 Field screens of South wall section came back clean

15:01 Dug base below south wall on west end down 2' and base in central portion of pit down 2'. Field screens returned hot

15:03 Loaded 28 trucks

Next Steps & Recommendations

1 Continue base excavation of pit





Site PhotosViewing Direction: SouthViewing Direction: EastImage: South image: South imag

Run on 5/24/2022 10:07 PM UTC



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 5/24/22)

	Sampling										
				Field	Screenin	ıg			Data Collection		
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	4.0			1.51	21.6	2055					
BES22-02	4.0			1.31	21.5	1770					
BES22-03	12.0			1.26	22.2	1668					
BES22-04	12.0			0.82	22	1042					
BES22-05	12.0			1.31	21.9	1753					
BES22-06	5.0			1.56	27.4	1876					
BES22-07	5.0			1.32	25.6	1607					
BES22-08	13.0			1.01	27.7	1069					
BES22-09	13.0			0.73	25.4	764					



Client:	EOG Resources Inc.	Inspection Date:	5/26/2022			
Site Location Name:	Cooper AHH #1	Report Run Date:	5/26/2022 9:10 PM			
Client Contact Name:	Chase Settle	API #:	30-015-26299			
Client Contact Phone #:	575-703-6537	_				
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	5/26/2022 8:15 AM					
Departed Site	5/26/2022 3:30 PM					
Field Notes						

12:16 Begin loading trucks and excavating base of pit

14:46 Begin moving ramp to clean up base

14:47 Clean up around areas where samples have come back clean and begin excavating soil in northwest section of pit

14:51 Moved spoils from pit to spoils pile

Next Steps & Recommendations

1 Continue excavation of base and pulling back ramp of pit



Site Photos Viewing Direction: North Viewing Direction: West Site Photos Viewing Direction: West Site Photos Viewing Direction: North Site Photos Viewing Direction: North Site Photos Viewing Direction: North Site Photos Site Photos Viewing Direction: North Site Photos Site Photos Viewing Direction: North Site Photos Site Photos

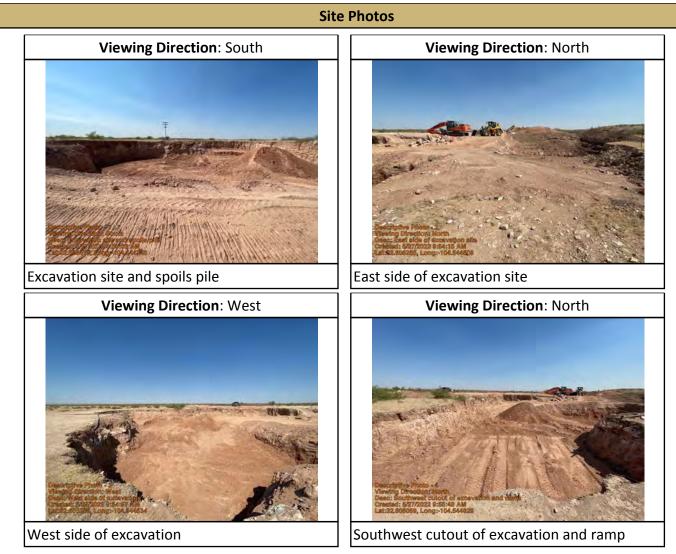


Client:	EOG Resources Inc.	Inspection Date:	5/27/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/31/2022 3:04 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	5/27/2022 8:05 AM						
Departed Site	5/27/2022 10:00 AM						
Field Notes							
9:00 Moved spoils from pit to spoils pile							

Next Steps & Recommendations

1 Continue excavation of base of pit and removal of ramp









Central and west portion of excavation



Client:	EOG Resources Inc.	Inspection Date:	5/31/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	5/31/2022 9:57 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	5/31/2022 8:10 AM						
Departed Site	5/31/2022 3:00 PM						
Field Notes							

9:02 Begin excavation of base of pit and truck loading.

14:49 Excavated base of pit in central portion of excavation.

14:49 Removed unneeded portion of ramp

14:58 Loaded 9 trucks

Next Steps & Recommendations

1 Continue excavation of base in central portion of pit and removal/cleanup of ramp area







Client:	EOG Resources Inc.	Inspection Date:	6/2/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/2/2022 10:18 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	6/2/2022 7:55 AM						
Departed Site	6/2/2022 3:30 PM						

Field Notes

8:01 Begin loading trucks, excavating base of site, and field screening samples.

15:18 Excavated center of pit to 20' and west side of pit down to 13'. Pulled portion of unneeded ramp back

15:19 Excavated southwest section of pit down to 3'

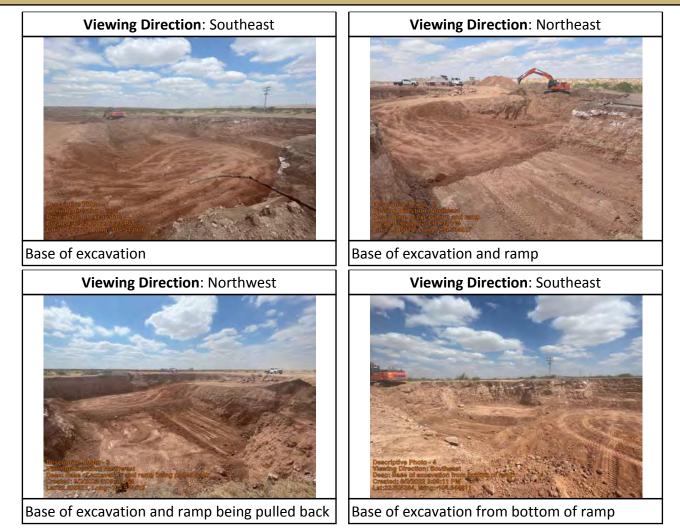
15:19 Loaded 15 trucks

Next Steps & Recommendations

1 Continue excavation of west base of pit and southeast corner of pit. Continue pulling back unneeded sections of ramp



Site Photos





Client:	EOG Resources Inc.	Inspection Date:	6/6/2022			
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/6/2022 10:04 PM			
Client Contact Name:	Chase Settle	API #:				
Client Contact Phone #:	575-703-6537					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	6/6/2022 8:32 AM					
Departed Site	6/6/2022 3:15 PM					
Field Notes						

8:32 Begin truck loading and field screening location of ramp

13:56 Lowered southeast corner of pit 1'

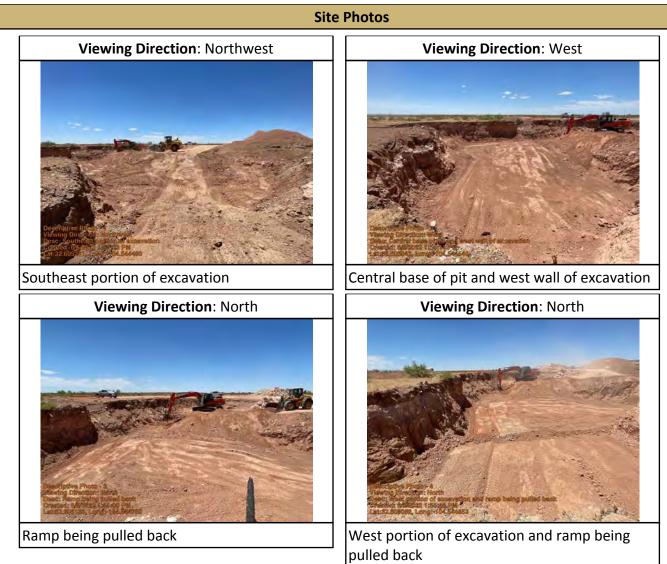
13:56 Continue pulling back ramp

15:59 Loaded 14 trucks

Next Steps & Recommendations

1 Continue with pulling back ramp and field screening





Run on 6/6/2022 10:04 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	6/7/2022				
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/7/2022 9:12 PM				
Client Contact Name:	Chase Settle	API #:					
Client Contact Phone #:	575-703-6537						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	6/7/2022 8:50 AM						
Departed Site	6/7/2022 3:25 PM						

Field Notes

9:39 Begin loading trucks and continue pulling back ramp into pit while conducting field screens

14:52 Lowered west central base of pit 2' in 1' increments. Samples in west central base of pit came back clean

14:53 Lowered southwest corner of pit 1', samples still hot

14:53 Continued pulling ramp out of pit and field screening under ramp

15:03 Loaded 11 trucks

Next Steps & Recommendations

1 Continue pulling ramp out and field screening beneath ramp



Site Photos Viewing Direction: South Viewing Direction: East West central portion of excavation West central section of pit and ramp Viewing Direction: North Viewing Direction: East Ramp being pulled back Ramp being pulled back



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 6/7/22)

Sampling											
		Field Screening						Data Collection			
		Hydro	carbon	Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	17.0			0.74	25.1	792					
BES22-02	17.0			1.13	25	1359					
BES22-03	17.0			0.90	24.5	1049					
BES22-04	18.0		35	0.48	25.8	386					
BES22-05	18.0		23	0.35	24.3	264					
BES22-06	18.0		48	0.63	25.9	598					



Client:	EOG Resources Inc.	Inspection Date:	6/8/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/8/2022 10:26 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of 1	imes
Arrived at Site	6/8/2022 8:30 AM		
Departed Site	6/8/2022 3:30 PM		
		Field Note	25

13:55 Begin loading trucks and field screens under ramp

13:55 Begin pulling ramp back

13:56 Dig down northwest and north central portion of ramp

14:21 Moved large rocks while clearing ramp

15:03 Loaded 17 trucks

Next Steps & Recommendations

1



Site Photos Viewing Direction: East Viewing Direction: North Pulled back portion of ramp and northwest West base of pit and remainder of ramp base of pit Viewing Direction: Northwest Viewing Direction: West West base and wall of pit West side of excavation

Run on 6/8/2022 10:26 PM UTC



Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 6/8/22)

Sampling											
Field Screening							Data Co	llection			
		Hydro	carbon		Chloride						
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01	17.0			0.82	24	955					
BES22-02	17.0			0.70	24.1	777					
BES22-03	15.0			1.67	23.8	2190					
BES22-04	15.0			1.63	24.1	2120					



Client:	EOG Resources Inc.	Inspection Date:	6/9/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/9/2022 9:46 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	limes 🦷
Arrived at Site	6/9/2022 8:30 AM		
Departed Site	6/9/2022 2:30 PM		
		Field Note	29

14:14 Begin truck loading and do walkthrough of site with Monica Peppin

14:14 Continue to pull back ramp to north wall of excavation site

15:42 Pull down northwest and west central corner of excavation site while mapping site

15:42 Loaded 21 trucks

Next Steps & Recommendations

1



Site Photos Viewing Direction: North Viewing Direction: Northwest West base and north wall of excavation with West central base of excavation remainder of ramp Viewing Direction: North Viewing Direction: West Remainder of ramp West base of pit and west wall

Run on 6/9/2022 9:46 PM UTC



Client:	EOG Resources Inc.	Inspection Date:	6/14/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/15/2022 3:07 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	6/14/2022 8:30 AM		
Departed Site	6/14/2022 2:10 PM		
		Field Not	

9:25 Begin truck loading and field screening base samples

13:29 Continue collecting base samples for confirmation

13:29 Continue pulling ramp into pit back and screening beneath location of ramp

15:29 Loaded 5 trucks today

Next Steps & Recommendations

1 Continue field screens in base for confirmation



Client:	EOG Resources Inc.	Inspection Date:	6/15/2022							
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/16/2022 1:52 AM							
Client Contact Name:	Chase Settle	API #:								
Client Contact Phone #:	575-703-6537									
Unique Project ID		Project Owner:								
Project Reference #		Project Manager:								
		Summary of	Times							
Arrived at Site	6/15/2022 8:30 AM									
Departed Site	6/15/2022 2:10 PM									
	Field Notes									

9:08 Begin loading trucks and field screening base samples for confirmation

19:49 Field screen base samples for confirmation

19:49 Continue lowering ramp and field screening under ramp

19:49 Loaded 7 trucks today

Next Steps & Recommendations

1 Continue confirmation sampling of base and pulling down/field screening ramp



Client:	EOG Resources Inc.	Inspection Date:	6/16/2022						
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/16/2022 9:38 PM						
Client Contact Name:	Chase Settle	API #:							
Client Contact Phone #:	575-703-6537								
Unique Project ID		Project Owner:							
Project Reference #		Project Manager:							
		Summary of	Times						
Arrived at Site	6/16/2022 8:30 AM								
Departed Site	6/16/2022 2:05 PM								
	Field Notes								
0.26 Arrivo on cito ar	d hagin loading trucks								

9:26 Arrive on site and begin loading trucks

9:26 Dig central portion of pit down 1' while conducting field screens

15:35 Loaded 9 trucks today

Next Steps & Recommendations

1 Continue with collecting base samples and pulling out ramp



Client:	EOG Resources Inc.	Inspection Date:	6/17/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/20/2022 6:57 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	Times
Arrived at Site	6/17/2022 8:30 AM		
Departed Site	6/17/2022 2:45 PM		
		Field Note	25
10:58 Arrived on locati	on. Begin loading trucks		
10:58 Level remainder	of ramp and field screen base	e samples	
12:22 Pull ramp back for	urther and level ramp		

- 12:22 Jar collected samples
- 12:23 Loaded 9 trucks

Next Steps & Recommendations

1 Continue with screening samples and excavation when necessary



Client:	EOG Resources Inc.	Inspection Date:	6/20/2022
Site Location Name:	Cooper AHH #1 Battery	Report Run Date:	6/21/2022 5:08 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of 1	Times
Arrived at Site	6/20/2022 8:30 AM		
Departed Site	6/20/2022 10:00 AM		
		Field Note	25

14:22 Arrived on location and began loading trucks

14:22 Bottom of pit has standing water, and rest of pit is slightly washed out/very muddy

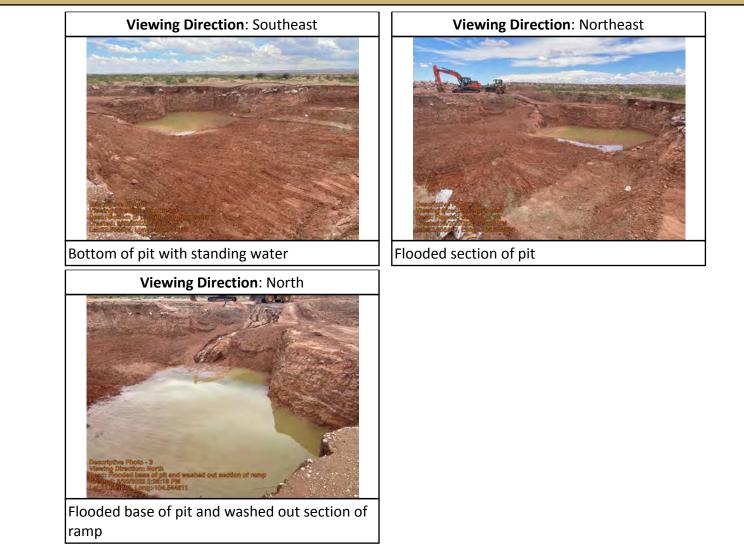
20:36 Loaded 3 trucks today

Next Steps & Recommendations

1 Allow pit to dry out and continue samples/excavation



Site Photos





Client:	EOG Resources Inc.	Inspection Date:	6/27/2022					
Site Location Name:	Cooper AHH #1	Report Run Date:	6/27/2022 9:02 PM					
Client Contact Name:	Chase Settle	API #:	30-015-26299					
Client Contact Phone #:	575-703-6537	_						
Unique Project ID	-Cooper AHH #1	Project Owner:						
Project Reference #		Project Manager:						
		Summary of T	limes					
Arrived at Site	6/27/2022 8:24 AM							
Departed Site	6/27/2022 9:22 AM							
		Field Note	25					
8:35 Arrived on-site a	8:35 Arrived on-site at 0824							

8:35 Site received large amounts of rain over the week making it unsafe for work

8:35 Will continue operating once site has dried

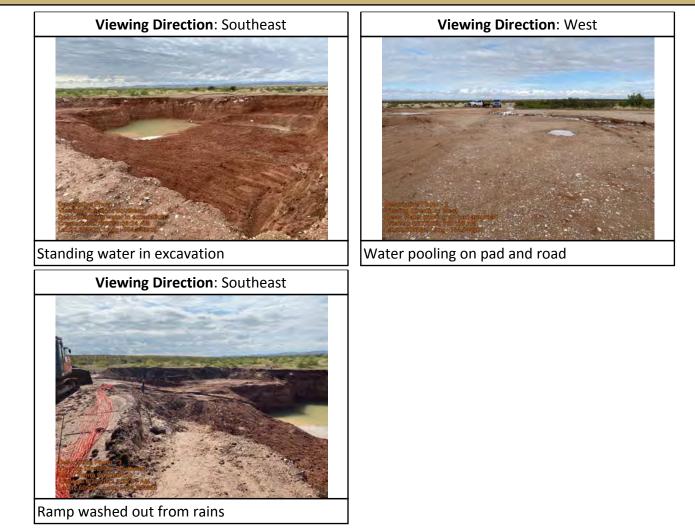
8:37 Access road heavily flooded

Next Steps & Recommendations

1



Site Photos



Run on 6/27/2022 9:02 PM UTC



Daily Site Visit Signature



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Client:	EOG Resources Inc.	Inspection Date:	7/5/2022
Site Location Name:	Cooper AHH #1	Report Run Date:	7/6/2022 12:07 AM
Client Contact Name:	Chase Settle	API #:	30-015-26299
Client Contact Phone #:	575-703-6537		
Unique Project ID	-Cooper AHH #1	Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	imes
Arrived at Site	7/5/2022 10:13 AM		
Departed Site	7/5/2022 4:52 PM		
		Field Note	25
16:03 Arrived on-site a	t 1013		
16:04 Wall samples tak	en around the edge of the exe	cavation	
16:05 WS22-01 to WS2	2-11 were taken at 0-4', 4-8', 8	3-12', and 12-16'	
16:06 WS22-12 to WS2	2-13 were taken at 0-4'		
16:06 Field screenings	on chlorides and TPH came ba	ck clean under NMO	CD criteria
16:08 Standing water s	till present in southeast corne	r of excavation	

Next Steps & Recommendations

1

.



Site Photos



Northwest corner of excavation



Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1

Date: (SD: 7/5/22)

	Sampling										
	Field Screening							Data Co	ollection		
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	VOC ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-01	4.0			1.58	29.4	1818		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-01	8.0			1.48	28.6	1708		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-01	12.0			1.35	28.4	1529		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-01	16.0		9	1.85	28.8	2234	165	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-02	4.0			1.59	29.6	1824		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-02	8.0			1.94	29.1	2351		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-02	12.0		9	1.84	29.1	2206		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-02	16.0			1.20	29.4	1270	115	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-03	4.0			2.10	29.5	2564		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



		 			1					
WES22-03	8.0	17	2.34	29.5	2911		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-03	12.0		2.35	30.2	2895	350	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-03	16.0		2.20	30.5	2665		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-04	4.0		1.88	28	2312		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WES22-04	8.0	50	1.59	27.4	1919	243	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WES22-04	12.0		1.68	27.3	2053		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WES22-04	16.0		1.81	27.3	2241		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		\checkmark	
WES22-05	4.0		1.87	27.1	2336	130	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-05	8.0	8	1.88	27.1	2351		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-05	12.0		1.85	27.1	2307		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-05	16.0		1.65	27.1	2019		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-06	4.0	27	1.46	26.5	1770		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



WES22-06	8.0		1.10	26.9	1233		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-06	12.0		1.18	27	1345		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-06	16.0		1.50	27.3	1793	260	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-07	4.0		1.01	27.5	1078		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-07	8.0		0.88	27.4	894	135	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-07	12.0	9	1.59	27.5	1915		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-07	16.0		1.66	28.2	1985		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-08	4.0	82	1.12	31.1	1081		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-08	8.0		0.92	29.3	870		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-08	12.0		0.78	29.7	650	425	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-08	16.0		0.85	29.5	760		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-09	4.0		0.80	28.7	723	395	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



WES22-09	8.0		1.23	29.1	1326		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-09	12.0		0.96	28.5	962		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-09	16.0	49	0.97	28.5	977		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-10	4.0		0.75	29.1	633	605	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-10	12.0	0	0.61	28.5	457		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-10	16.0		0.66	28.4	533		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-11	4.0	103	0.18	29.8	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-11	8.0		0.25	28.9	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-11	12.0		0.24	28.8	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-11	16.0		0.32	28.5	38		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-12	4.0	54	0.54	28.8	343		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
WES22-13	4.0	35	0.69	28.4	577		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



Client:	EOG Resources Inc.	Inspection Date:	7/6/2022
Site Location Name:	Cooper AHH #1	Report Run Date:	7/6/2022 8:14 PM
Client Contact Name:	Chase Settle	API #:	30-015-26299
Client Contact Phone #:	575-703-6537		
Unique Project ID	-Cooper AHH #1	Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	7/6/2022 8:28 AM		
Departed Site	7/6/2022 12:28 PM		

Field Notes

11:59 Arrived at site and filled out safety paperwork. Will continue gathering soil samples at the base of excavation and possibly remaining walls.

12:00 Gathered soil samples: BS22-48 - BS22-61 at the bases near the northwest and northeast corner.

12:01 Field screened samples for Chlorides and TPH.

12:02 All field screened samples can be considered clean according to NMOCDs regulations.

12:04 Still need to gather wall and surface samples of access ramp. Currently waiting for standing water at the deepest base to dry off. Need to gather soil samples here before touching the ramp.

Next Steps & Recommendations

1



Site Photos Viewing Direction: West Viewing Direction: Southeast BS22-48 - BS22-55 BS22-56 - BS22-59 Viewing Direction: Northeast Viewing Direction: South BS22-60 - BS22-61 Standing water from recent rains





Ramp needing sampling



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature: Z

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Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1 Battery

Date: (SD: 7/6/22)

					:	Sampling					
				Field	Screeni	ng			Data Co	llection	
		Hydro	carbon		C	hloride					
Sample ID	Depth (ft)	VOC ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-48	0.0		50	0.54	30.4	274		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-49	0.0		64	0.64	26.8	574		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-50	0.0		20	0.57	26.6	482		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-51	0.0		55	0.43	26.5	284		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-52	0.0		50	0.63	27.3	538		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-53	0.0		38	0.56	27	450		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-54	0.0		39	0.50	26.8	372		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-55	0.0		29	0.38	26.8	199		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-56	0.0		49	0.52	27.1	388		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



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BES22-57	0.0	39	0.58	26.7	492		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-58	0.0	42	0.46	26.5	327		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-59	0.0	36	0.52	26.4	418		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-60	0.0	33	0.75	27.8	689	138	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	
BES22-61	0.0	24	0.46	27.6	279		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	\checkmark	



Client:	EOG Resources Inc.	Inspection Date:	7/8/2022
Site Location Name:	Cooper AHH #1	Report Run Date:	7/9/2022 12:34 AM
Client Contact Name:	Chase Settle	API #:	30-015-26299
Client Contact Phone #:	575-703-6537	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	7/8/2022 7:29 AM		
Departed Site	7/8/2022 4:47 PM		

Field Notes

16:08 Completed safety paperwork on arrival. On site to collect confirmation samples.

16:38 Swept base and walls of excavation with magnetic locator prior to sampling. Collected and field screened confirmation samples from 20-foot portion of excavation. Collected remaining wall excavation confirmation samples. Re-collected confirmation samples from points with slightly elevated laboratory results for chloride. Collected remaining base excavation confirmation samples from 4, 12, 14, and 16-foot areas.

16:37 Collected confirmation samples on ramps within excavation.

Next Steps & Recommendations

1



Site Photos Viewing Direction: West Viewing Direction: North Northeast corner of excavation facing west. South edge of excavation facing north. End of Beginning of day. day. (Recent rain pooled water in the bottom) Viewing Direction: Northeast Viewing Direction: Southeast Southwest corner of excavation facing Northwest corner of excavation northeast. End of day. (Rain water in corner) facing southeast. End of day.

Run on 7/9/2022 12:34 AM UTC







Page 138 of 602



Run on 7/9/2022 12:34 AM UTC





Southeast corner of excavation facing northwest. End of day.



Daily Site Visit Signature

Inspector: Lakin Pullman Signature:

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Client: Client: EOG Resources Inc.

Location: Site: Cooper AHH #1

Date: (SD: 7/8/22)

					:	Sampling					
				Field	Screenii	ng			Data Co	ollection	
		Hydro	carbon		c	hloride					
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-100	12.0	0		0.67	33.9	310				\checkmark	
BES22-101	12.0	0		0.59	34.1	186					
BES22-102	12.0	0		0.60	34.1	200				\checkmark	
BES22-103	12.0	0		0.58	33.8	184				\checkmark	
BES22-104	12.0	0		0.57	34	161				\checkmark	
BES22-24	17.0	0		0.37	32.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-30	17.0	0		0.42	32.3	18		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-31	17.0	0		0.33	32.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-32	17.0	0		0.39	32.2	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-44	17.0	0		0.49	32.2	124		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-62	20.0	0		0.37	32.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	
BES22-63	20.0	0		0.46	32.6	63		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		\checkmark	

VERTEX

						VERIEX
BES22-64	20.0	0	0.48	32.5	96	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-65	20.0	0	0.51	32.7	131	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-66	20.0	0	0.39	32.8	0	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-67	20.0	0	0.43	32.6	20	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-68	20.0	0	0.37	32.7	0	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-69	20.0	0	0.50	33.1	99	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-70	20.0	0	0.51	33	118	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-71	20.0	0	0.43	33.1	0	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-72	20.0	0	0.52	33.2	124	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-73	20.0	0	0.51	33	118	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-74	20.0	0	0.40	33.1	0	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)
BES22-75	20.0	0	0.48	33.3	62	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)



							VENIE	
BES22-76	20.0	0	0.45	33.2	23	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	
BES22-77	20.0	0	0.55	33.2	167	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	
BES22-78	4.0	0	0.40	33.3	0		\checkmark	
BES22-79	4.0	0	0.45	31.2	109		\checkmark	
BES22-80	4.0	0	0.41	31.3	47		\checkmark	
BES22-81	4.0	0	0.54	31.7	217		\checkmark	
BES22-82	4.0	0	0.48	32	118		\checkmark	
BES22-83	4.0	0	0.42	30.8	83			
BES22-84	4.0	0	0.60	35	161		\checkmark	
BES22-85	4.0	0	0.58	34.6	150		\checkmark	
BES22-86	4.0	0	0.68	34.8	285		\checkmark	
BES22-87	4.0	0	0.64	35	219		\checkmark	
BES22-88	4.0	0	0.32	33.7	0		\checkmark	
BES22-89	4.0	0	0.61	30.5	370		\checkmark	
BES22-90	4.0	0	0.51	30.4	230		\checkmark	
BES22-91	4.0	0	0.54	30.5	269	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	
BES22-92	4.0	0	0.42	30.5	96	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	
BES22-93	14.0	0	0.38	37.5	0			
BES22-94	14.0	0	0.40	37.3	0		\checkmark	
BES22-95	14.0	0	0.35	37	0		\checkmark	
BES22-96	14.0	0	0.39	36.9	0		\checkmark	
BES22-97	14.0	0	0.33	36.9	0		\checkmark	
BES22-98	12.0	0	0.65	34	277		\checkmark	
BES22-99	12.0	0	0.61	33.9	223		\checkmark	
WES22-14	20.0	0	0.46	33.3	33			
WES22-15	20.0	0	0.51	33.2	109			
WES22-16	20.0	0	0.57	33.2	196			
WES22-17	8.0	0	0.48	33.1	70			
WES22-17	12.0	0	0.51	33	118		\checkmark	

Released to Imaging: 2/24/2023 2:37:49 PM



						VERIEX	
WES22-17	16.0	0	0.46	33.1	41		
WES22-17	20.0	0	0.47	31.2	138		
WES22-18	8.0	0	0.39	31.1	27		
WES22-18	12.0	0	0.32	31	0		
WES22-18	16.0	0	0.45	31.3	105		
WES22-18	20.0	0	0.49	31.2	167		
WES22-19	4.0	0	0.53	34.7	73	✓	
WES22-19	8.0	0	0.47	34.4	0	✓	
WES22-19	12.0	0	0.55	34.4	115		
WES22-19	17.0	0	0.50	34.3	47		
WES22-20	4.0	0	0.42	34.5	0		
WES22-20	8.0	0	0.58	34.5	154		
WES22-20	12.0	0	0.52	34.4	72		
WES22-20	17.0	0	0.48	34.3	18		
WES22-21	17.0	0	0.37	37.4	0		
WES22-22	8.0	0	0.48	36.6	0		
WES22-22	12.0	0	0.56	35.6	77		
WES22-22	15.0	0	0.49	35.8	0		
WES22-22	17.0	0	0.37	36	0		
WES22-23	8.0	0	0.41	36.1	0		
WES22-23	12.0	0	0.42	36	0		
WES22-23	15.0	0	0.59	36.1	99		
WES22-23	17.0	0	0.42	36.1	0		
WES22-24	8.0	0	0.76	34.2	427		
WES22-24	8.0	0	0.76	34.2	427		
WES22-24	12.0	0	0.68	34.2	311		
WES22-25	8.0	0	0.67	34.3	292		
WES22-25	12.0	0	0.72	34.4	360		
WES22-26	4.0	0	0.48	33.2	66		
WES22-27	4.0	0	0.42	33.3	0		



Client:	EOG Resources Inc.	Inspection Date:	7/9/2022
Site Location Name:	Cooper AHH #1	Report Run Date:	7/9/2022 11:28 PM
Client Contact Name:	Chase Settle	API #:	30-015-26299
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Fimes
Arrived at Site	7/9/2022 7:13 AM		
Departed Site	7/9/2022 4:17 PM		

Field Notes

7:40 Completed safety paperwork at office. On site to continue confirmation sampling.

16:08 Collected remaining confirmation base and wall excavation samples. Samples were field screened for VOC and chloride. Soil samples were packaged for submission to laboratory for analyses.

Next Steps & Recommendations

1 Remove ramp on north side.

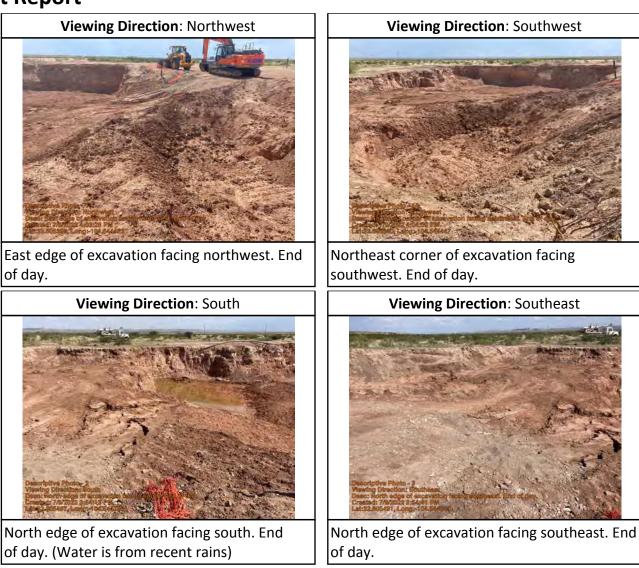
2 Wait for laboratory results prior to backfill.



Site Photos

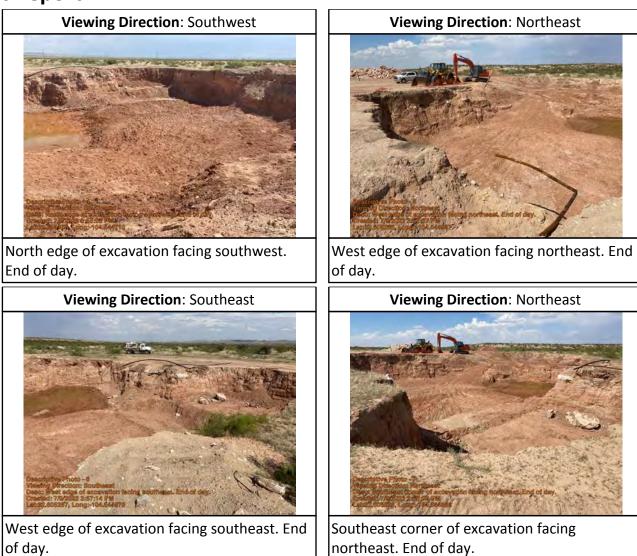




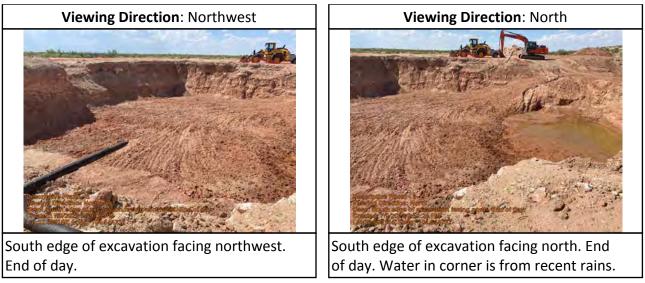




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ATTACHMENT 5

From:	Chase Settle <chase_settle@eogresources.com></chase_settle@eogresources.com>
Sent:	Wednesday, November 24, 2021 10:22 AM
То:	Monica Peppin
Cc:	Michael Moffitt
Subject:	FW: Cooper AHH 1 (NMLB1027336691/2RP-439) Sampling Notification

From: Yolanda Ybarra <Yolanda_Ybarra@eogresources.com>
Sent: Wednesday, November 24, 2021 8:55 AM
To: robert.hamlet@state.nm.; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>;
Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo
<Ashley_Bravo@eogresources.com>
Subject: FW: Cooper AHH 1 (NMLB1027336691/2RP-439) Sampling Notification

Good morning,

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

Cooper AHH 1 NMLB1027336691/2RP-439

Sampling will begin at 8:00 a.m. November 30, 2021, and be continuous as the excavation progresses.

Thank you,

eog resources

Yolanda A. Ybarra

Sr. Regulatory Assistant Artesia Division 104 S. 4th Street Artesia, NM 88210 (575) 748-4329 Office (575) 703-1882 Cell

From: Miriam Morales <<u>Miriam_Morales@eogresources.com</u>>
Sent: Tuesday, November 23, 2021 4:01 PM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>; Katie Jamison <<u>Katie_Jamison@eogresources.com</u>>;
Chase Settle <<u>Chase_Settle@eogresources.com</u>>; Yvette Moore <<u>Yvette_Moore@eogresources.com</u>>; Ashley Bravo

.

<<u>Ashley_Bravo@eogresources.com</u>>

Subject: Cooper AHH 1 (NMLB1027336691/2RP-439) Sampling Notification

Good Afternoon,

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

Cooper AHH 1 NMLB1027336691/2RP-439

Sampling will begin at 8:00 a.m. on November 30, 2021.

Thank you,

Miriam Morales

From:	Amber Griffin <amber_griffin@eogresources.com></amber_griffin@eogresources.com>
Sent:	Thursday, June 9, 2022 1:42 PM
То:	Monica Peppin
Subject:	FW: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 9, 2022 10:19 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher
<mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory
<Artesia_Regulatory@eogresources.com>
Subject: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

Good Morning,

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

Cooper AHH 1 Battery F-1-20S-24E; Eddy County, NM NMLB1027336691/2RP-439

Sampling will begin at 8:00 a.m. on Monday, June 13, 2022 and continue through Friday, June 17, 2022.

Thank you,

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



From:	Chase Settle <chase_settle@eogresources.com></chase_settle@eogresources.com>
Sent:	Thursday, June 16, 2022 11:51 AM
То:	Monica Peppin
Cc:	Michael Moffitt
Subject:	FW: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 16, 2022 9:40 AM
To: blm_nm_cfo_spill@blm.gov; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon
<Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet
<Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory
<Artesia_Regulatory@eogresources.com>
Subject: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

Good Morning,

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

Cooper AHH 1 Battery F-1-20S-24E; Eddy County, NM NMLB1027336691/2RP-439

Sampling will begin at 10:00 a.m. on Monday, June 20, 2022 through Friday, June 24, 2022.

Thank you,

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



From:	Chase Settle <chase_settle@eogresources.com></chase_settle@eogresources.com>
Sent:	Monday, June 27, 2022 7:51 AM
То:	Monica Peppin
Subject:	FW: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 23, 2022 7:25 AM
To: blm_nm_cfo_spill@blm.gov; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon
<Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet
<Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory
<Artesia_Regulatory@eogresources.com>
Subject: Cooper AHH 1 Battery (NMLB1027336691/2RP-439) Sampling Notification

Good Morning,

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

Cooper AHH 1 Battery F-1-20S-24E Eddy County, NM NMLB1027336691/2RP-439

Sampling will begin at 8:00 a.m. on Monday, June 27, 2022 and continue through Friday, July 1, 2022.

Thank you,

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



ATTACHMENT 6



October 06, 2021

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

OrderNo.: 2109D87

RE: Cooper AHH 1

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/24/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG Project: Cooper AHH 1	Client Sample ID: BH21-01 0' Collection Date: 9/22/2021 10:45:00 AM						
Lab ID: 2109D87-001	Matrix: SOIL		Recei	ved Dat	e: 9/2	24/2021 7:25:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	VP
Chloride	95	60		mg/Kg	20	9/29/2021 10:41:07 PM	62900
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	51	9.1		mg/Kg	1	10/1/2021 9:49:13 AM	62875
Motor Oil Range Organics (MRO)	130	46		mg/Kg	1	10/1/2021 9:49:13 AM	62875
Surr: DNOP	59.2	70-130	S	%Rec	1	10/1/2021 9:49:13 AM	62875
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/28/2021 3:57:00 AM	62829
Surr: BFB	89.1	70-130		%Rec	1	9/28/2021 3:57:00 AM	62829
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.023		mg/Kg	1	9/28/2021 3:57:00 AM	62829
Toluene	ND	0.046		mg/Kg	1	9/28/2021 3:57:00 AM	62829
Ethylbenzene	ND	0.046		mg/Kg	1	9/28/2021 3:57:00 AM	62829
Xylenes, Total	ND	0.093		mg/Kg	1	9/28/2021 3:57:00 AM	62829
Surr: 4-Bromofluorobenzene	76.2	70-130		%Rec	1	9/28/2021 3:57:00 AM	62829

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix

- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG	Client Sample ID: BH21-01 1'							
Project: Cooper AHH 1	Collection Date: 9/22/2021 10:55:00 AM							
Lab ID: 2109D87-002	Matrix: SOIL		Received Dat	e: 9/2	24/2021 7:25:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	230	60	mg/Kg	20	9/29/2021 11:18:22 PM	62900		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/28/2021 2:03:10 PM	62840		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/28/2021 2:03:10 PM	62840		
Surr: DNOP	94.4	70-130	%Rec	1	9/28/2021 2:03:10 PM	62840		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/28/2021 10:39:57 AM	62834		
Surr: BFB	104	70-130	%Rec	1	9/28/2021 10:39:57 AM	62834		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.025	mg/Kg	1	9/28/2021 10:39:57 AM	62834		
Toluene	ND	0.050	mg/Kg	1	9/28/2021 10:39:57 AM	62834		
Ethylbenzene	ND	0.050	mg/Kg	1	9/28/2021 10:39:57 AM	62834		
Xylenes, Total	ND	0.10	mg/Kg	1	9/28/2021 10:39:57 AM	62834		
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/28/2021 10:39:57 AM	62834		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG	Client Sample ID: BH21-02 0'							
Project: Cooper AHH 1	Collection Date: 9/22/2021 11:00:00 AM							
Lab ID: 2109D87-003	Matrix: SOIL	Received Date: 9/24/2021 7:25:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	VP		
Chloride	ND	60	mg/Kg	20	9/29/2021 11:30:47 PM	62900		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/28/2021 2:40:18 PM	62840		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/28/2021 2:40:18 PM	62840		
Surr: DNOP	84.6	70-130	%Rec	1	9/28/2021 2:40:18 PM	62840		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2021 11:50:25 AM	62834		
Surr: BFB	107	70-130	%Rec	1	9/28/2021 11:50:25 AM	62834		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.025	mg/Kg	1	9/28/2021 11:50:25 AM	62834		
Toluene	ND	0.049	mg/Kg	1	9/28/2021 11:50:25 AM	62834		
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2021 11:50:25 AM	62834		
Xylenes, Total	ND	0.099	mg/Kg	1	9/28/2021 11:50:25 AM	62834		
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	9/28/2021 11:50:25 AM	62834		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG	Client Sample ID: BH21-02 1'							
Project: Cooper AHH 1	Collection Date: 9/22/2021 11:10:00 AM							
Lab ID: 2109D87-004	Matrix: SOIL		Received Dat	e: 9/2	24/2021 7:25:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	210	60	mg/Kg	20	9/30/2021 8:38:12 AM	62931		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JME		
Diesel Range Organics (DRO)	160	20	mg/Kg	2	10/1/2021 12:46:30 PM	62840		
Motor Oil Range Organics (MRO)	440	100	mg/Kg	2	10/1/2021 12:46:30 PM	62840		
Surr: DNOP	83.6	70-130	%Rec	2	10/1/2021 12:46:30 PM	62840		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2021 1:01:17 PM	62834		
Surr: BFB	106	70-130	%Rec	1	9/28/2021 1:01:17 PM	62834		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.024	mg/Kg	1	9/28/2021 1:01:17 PM	62834		
Toluene	ND	0.049	mg/Kg	1	9/28/2021 1:01:17 PM	62834		
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2021 1:01:17 PM	62834		
Xylenes, Total	ND	0.098	mg/Kg	1	9/28/2021 1:01:17 PM	62834		
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	9/28/2021 1:01:17 PM	62834		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG		Cl	ient Sample II	D: BH	H21-03 0'			
Project: Cooper AHH 1	Collection Date: 9/22/2021 11:30:00 AM							
Lab ID: 2109D87-005	Matrix: SOIL		Received Dat	e: 9/2	24/2021 7:25:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	: VP		
Chloride	160	61	mg/Kg	20	9/30/2021 8:50:37 AM	62931		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: JME		
Diesel Range Organics (DRO)	140	49	mg/Kg	5	9/30/2021 3:12:57 PM	62840		
Motor Oil Range Organics (MRO)	420	240	mg/Kg	5	9/30/2021 3:12:57 PM	62840		
Surr: DNOP	88.6	70-130	%Rec	5	9/30/2021 3:12:57 PM	62840		
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2021 1:24:47 PM	62834		
Surr: BFB	105	70-130	%Rec	1	9/28/2021 1:24:47 PM	62834		
EPA METHOD 8021B: VOLATILES					Analys	: NSB		
Benzene	ND	0.025	mg/Kg	1	9/28/2021 1:24:47 PM	62834		
Toluene	ND	0.049	mg/Kg	1	9/28/2021 1:24:47 PM	62834		
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2021 1:24:47 PM	62834		
Xylenes, Total	ND	0.098	mg/Kg	1	9/28/2021 1:24:47 PM	62834		
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	9/28/2021 1:24:47 PM	62834		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG		Cl	ient Sample II	D: BH	H21-03 1'			
Project: Cooper AHH 1	Collection Date: 9/22/2021 11:40:00 AM							
Lab ID: 2109D87-006	Matrix: SOIL		Received Dat	e: 9/2	24/2021 7:25:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	420	60	mg/Kg	20	9/30/2021 9:03:01 AM	62931		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/28/2021 3:05:01 PM	62840		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/28/2021 3:05:01 PM	62840		
Surr: DNOP	90.4	70-130	%Rec	1	9/28/2021 3:05:01 PM	62840		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/28/2021 1:48:09 PM	62834		
Surr: BFB	107	70-130	%Rec	1	9/28/2021 1:48:09 PM	62834		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	9/28/2021 1:48:09 PM	62834		
Toluene	ND	0.050	mg/Kg	1	9/28/2021 1:48:09 PM	62834		
Ethylbenzene	ND	0.050	mg/Kg	1	9/28/2021 1:48:09 PM	62834		
Xylenes, Total	ND	0.099	mg/Kg	1	9/28/2021 1:48:09 PM	62834		
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	9/28/2021 1:48:09 PM	62834		

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG		Cl	ient Sample I	D: BF	H21-04 0'	
Project: Cooper AHH 1		(Collection Da	te: 9 /2	22/2021 11:45:00 AM	
Lab ID: 2109D87-007	Matrix: SOIL		Received Da	te: 9/2	24/2021 7:25:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/30/2021 9:15:26 AM	62931
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	72	47	mg/Kg	5	9/30/2021 4:47:54 PM	62840
Motor Oil Range Organics (MRO)	380	230	mg/Kg	5	9/30/2021 4:47:54 PM	62840
Surr: DNOP	87.3	70-130	%Rec	5	9/30/2021 4:47:54 PM	62840
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/28/2021 2:11:43 PM	62834
Surr: BFB	106	70-130	%Rec	1	9/28/2021 2:11:43 PM	62834
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/28/2021 2:11:43 PM	62834
Toluene	ND	0.050	mg/Kg	1	9/28/2021 2:11:43 PM	62834
Ethylbenzene	ND	0.050	mg/Kg	1	9/28/2021 2:11:43 PM	62834
Xylenes, Total	ND	0.10	mg/Kg	1	9/28/2021 2:11:43 PM	62834
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	9/28/2021 2:11:43 PM	62834

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

Qualifiers:

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

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

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Hall	Environmental	Analysis]	Laboratory.	Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG		Cl	ient Sample II	D: BI	H21-04 1'	
Project: Cooper AHH 1		(Collection Dat	e: 9/2	22/2021 11:55:00 AM	
Lab ID: 2109D87-008	Matrix: SOIL		Received Dat	e: 9/2	24/2021 7:25:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/30/2021 9:27:51 AM	62931
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	120	18	mg/Kg	2	9/30/2021 3:24:49 PM	62840
Motor Oil Range Organics (MRO)	400	90	mg/Kg	2	9/30/2021 3:24:49 PM	62840
Surr: DNOP	102	70-130	%Rec	2	9/30/2021 3:24:49 PM	62840
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2021 2:35:14 PM	62834
Surr: BFB	106	70-130	%Rec	1	9/28/2021 2:35:14 PM	62834
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/28/2021 2:35:14 PM	62834
Toluene	ND	0.049	mg/Kg	1	9/28/2021 2:35:14 PM	62834
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2021 2:35:14 PM	62834
Xylenes, Total	ND	0.099	mg/Kg	1	9/28/2021 2:35:14 PM	62834
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/28/2021 2:35:14 PM	62834

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix

- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG				-		I21-05 0'	
Project: Cooper AHH 1		(Collect	ion Dat	e: 9/2	2/2021 12:00:00 PM	
Lab ID: 2109D87-009	Matrix: SOIL		Recei	ved Dat	e: 9/2	24/2021 7:25:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	9/30/2021 9:40:16 AM	62931
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	SB
Diesel Range Organics (DRO)	1600	190		mg/Kg	20	9/28/2021 10:03:50 PM	62840
Motor Oil Range Organics (MRO)	3200	930		mg/Kg	20	9/28/2021 10:03:50 PM	62840
Surr: DNOP	0	70-130	S	%Rec	20	9/28/2021 10:03:50 PM	62840
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2021 2:58:48 PM	62834
Surr: BFB	103	70-130		%Rec	1	9/28/2021 2:58:48 PM	62834
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	9/28/2021 2:58:48 PM	62834
Toluene	ND	0.049		mg/Kg	1	9/28/2021 2:58:48 PM	62834
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2021 2:58:48 PM	62834
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2021 2:58:48 PM	62834
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	9/28/2021 2:58:48 PM	62834

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

Qualifiers:

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

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

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Hall Environmental	Analysis	Laboratory,	Inc.
			,

Lab Order 2109D87

Date Reported: 10/6/2021

CLIENT: EOG		Cl	ient Sample I	D: BI	H21-05 1'	
Project: Cooper AHH 1		(Collection Dat	te: 9/2	22/2021 12:10:00 PM	
Lab ID: 2109D87-010	Matrix: SOIL		Received Dat	te: 9/2	24/2021 7:25:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: VP
Chloride	ND	60	mg/Kg	20	9/30/2021 9:52:41 AM	62931
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	110	48	mg/Kg	5	9/30/2021 4:59:47 PM	62840
Motor Oil Range Organics (MRO)	360	240	mg/Kg	5	9/30/2021 4:59:47 PM	62840
Surr: DNOP	86.0	70-130	%Rec	5	9/30/2021 4:59:47 PM	62840
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/28/2021 4:32:56 PM	62834
Surr: BFB	105	70-130	%Rec	1	9/28/2021 4:32:56 PM	62834
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/28/2021 4:32:56 PM	62834
Toluene	ND	0.047	mg/Kg	1	9/28/2021 4:32:56 PM	62834
Ethylbenzene	ND	0.047	mg/Kg	1	9/28/2021 4:32:56 PM	62834
Xylenes, Total	ND	0.095	mg/Kg	1	9/28/2021 4:32:56 PM	62834
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	9/28/2021 4:32:56 PM	62834

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix

- 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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	EOG	A T T T T 1								
Project:	Cooper .	АНН І								
Sample ID:	MB-62900	SampType:	MBLK	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID:	62900	F	unNo: 81677	7				
Prep Date:	9/29/2021	Analysis Date:	9/29/2021	S	eqNo: 28867	779	Units: mg/Kg	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND ²	1.5							
Sample ID:	LCS-62900	SampType:	LCS	Tes	tCode: EPA N	/lethod 3	300.0: Anions	5		
Client ID:	LCSS	Batch ID:	62900	F	unNo: 81677	7				
Prep Date:	9/29/2021	Analysis Date:	9/29/2021	S	eqNo: 28867	780	Units: mg/Kg	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 ⁻	1.5 15.00	0	96.4	90	110			
Sample ID:	MB-62931	SampType:	MBLK	Tes	tCode: EPA N	/lethod 3	300.0: Anions	5		
Client ID:	PBS	Batch ID:	62931	F	unNo: 81698	3				
Prep Date:	9/30/2021	Analysis Date:	9/30/2021	S	eqNo: 28884	474	Units: mg/Kg	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND ²	1.5							
Sample ID:	LCS-62931	SampType:	LCS	Tes	tCode: EPA N	/lethod 3	300.0: Anions	6		
Client ID:	LCSS	Batch ID:	62931	F	unNo: 81698	3				
Prep Date:	9/30/2021	Analysis Date:	9/30/2021	S	eqNo: 28884	475	Units: mg/Kg	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 [·]	1.5 15.00	0	94.9	90	110			

Qualifiers:

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

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

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2109D87

06-Oct-21

WO#:

QC SUMMARY REPORT Hall Envi

	WO#:	2109D87
ironmental Analysis Laboratory, Inc.		06-Oct-21

Client:ECProject:Co	G oper AHH 1						
Sample ID: MB-62840	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 62840	RunNo: 81609					
Prep Date: 9/27/2021	Analysis Date: 9/28/2021	SeqNo: 2886147 Units: mg/Kg					
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO	ND 10						
Motor Oil Range Organics (MI							
Surr: DNOP	9.5 10.00	94.9 70 130					
Sample ID: LCS-62840	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 62840	RunNo: 81609					
Prep Date: 9/27/2021	Analysis Date: 9/28/2021	SeqNo: 2886148 Units: mg/Kg					
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO) 44 10 50.00	0 0 87.2 68.9 135					
Surr: DNOP	4.6 5.000	92.4 70 130					
Sample ID: MB-62875	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 62875	RunNo: 81663					
Prep Date: 9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2888175 Units: mg/Kg					
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO) ND 10						
Motor Oil Range Organics (MI	RO) ND 50						
Surr: DNOP	11 10.00) 112 70 130					
Sample ID: LCS-62875	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 62875	RunNo: 81663					
Prep Date: 9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2888176 Units: mg/Kg					
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO	61 10 50.00	0 0 122 68.9 135					
Surr: DNOP	5.4 5.000	0 108 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 EOG

Cooper AHH 1

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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Sample ID: Ics-62829	SampType: LO	S	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch ID: 62	829	R	RunNo: 81607					
Prep Date: 9/24/2021	Analysis Date: 9	/27/2021	S	SeqNo: 28	884005	Units: mg/k	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29 5.0		0	116	78.6	131			
Surr: BFB	1100	1000		111	70	130			
Sample ID: mb-62829	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62	829	R	RunNo: 8 ′	1607				
Prep Date: 9/24/2021	Analysis Date: 9	/27/2021	S	SeqNo: 28	884006	Units: mg/k	٤g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	950	1000		95.2	70	130			
	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Sample ID: mb-62834	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Sample ID: mb-62834 Client ID: PBS	SampType: M Batch ID: 62			tCode: Ef RunNo: 8 ′		8015D: Gasc	oline Rang	e	
		834	R		1634	8015D: Gasc Units: mg/K	-	e	
Client ID: PBS	Batch ID: 62	834 /28/2021	R	RunNo: 8 SeqNo: 2 8	1634		-	e RPDLimit	Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte Gasoline Range Organics (GRO)	Batch ID: 62 Analysis Date: 9 Result PQL ND 5.0	2 834 /28/2021 SPK value	R	RunNo: 8 SeqNo: 2 %REC	1634 885069 LowLimit	Units: mg/k HighLimit	(g		Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte	Batch ID: 62 Analysis Date: 9 Result PQL	2834 /28/2021 SPK value	R	RunNo: 8 SeqNo: 2 8	1634 885069	Units: mg/k	(g		Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte Gasoline Range Organics (GRO)	Batch ID: 62 Analysis Date: 9 Result PQL ND 5.0	2834 /28/2021 SPK value 1000	R S SPK Ref Val	RunNo: 8 SeqNo: 2 %REC 104	1634 885069 LowLimit 70	Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB	Batch ID: 62 Analysis Date: 9 Result PQL ND 5.0 1000	2834 /28/2021 SPK value 1000	R SPK Ref Val Test	RunNo: 8 SeqNo: 2 %REC 104	1634 885069 LowLimit 70 PA Method	Units: mg/K HighLimit 130	(g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-62834	Batch ID: 62 Analysis Date: 9 Result PQL ND 5.0 1000 SampType: L0	2834 /28/2021 SPK value 1000 CS 2834	R SPK Ref Val Tesi R	RunNo: 8 SeqNo: 2 %REC 104 tCode: EF	1634 885069 LowLimit 70 PA Method 1634	Units: mg/K HighLimit 130	Kg %RPD Dine Rang	RPDLimit	Qual
Client ID: PBS Prep Date: 9/25/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-62834 Client ID: LCSS	Batch ID: 62 Analysis Date: 9 Result PQL ND 5.0 1000 SampType: LC Batch ID: 62	2834 /28/2021 SPK value 1000 CS 2834 /28/2021	R SPK Ref Val Tesi R	RunNo: 8 SeqNo: 24 %REC 104 tCode: Ef RunNo: 8 SeqNo: 24	1634 885069 LowLimit 70 PA Method 1634	Units: mg/k HighLimit 130 8015D: Gasc	Kg %RPD Dine Rang	RPDLimit	Qual

Qualifiers:

Surr: BFB

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

B Analyte detected in the associated Method Blank

114

70

130

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

RL Reporting Limit

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W	/O#:	2109D87

06-Oct-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	EOG Cooper A	АНН 1									
110ject.											
Sample ID:	lcs-62829	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batcl	h ID: 62	829	RunNo: 81607						
Prep Date:	9/24/2021	Analysis D	Date: 9/	27/2021	S	SeqNo: 2	884094	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	94.3	80	120			
Toluene		0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene		0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total		2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Brom	ofluorobenzene	0.81		1.000		80.6	70	130			
Sample ID:	mb-62829	SampT	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 62	829	F	RunNo: 8	81607				
Prep Date:	9/24/2021	Analysis D	Date: 9/	27/2021	S	SeqNo: 2	884095	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.79		1.000		79.1	70	130			
Sample ID:	mb-62834	SampT	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 62	834	F	RunNo: 8	31634				
Prep Date:	9/25/2021	Analysis D	Date: 9/	28/2021	S	SeqNo: 2	885119	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.90		1.000		89.8	70	130			
Sample ID:	LCS-62834	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batcl	h ID: 62	834	F	RunNo: 8	31634				
Prep Date:	9/25/2021	Analysis E	Date: 9/	28/2021	S	SeqNo: 2	885120	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.025	1.000	0	95.1	80	120			
Toluene		0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene		0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.5	80	120			
Surr: 4-Brom	ofluorobenzene	0.92		1.000		91.6	70	130			

Qualifiers:

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

- 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 14 of 14

WO#: **2109D87**

06-Oct-21

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Daga	177	of 602
ruge	1/4	01 002

ived by OCD: 8/30/2022 10:49:41 AM HALL ENVIRONMENTAL ANALYSIS LABORATORY		901 Haw rque, N/ X: 505-3	kins NE M 87109 Sai 45-4107	Page 1
Client Name: EOG	Work Order Number: 21	09D87		RcptNo: 1
Received By: Cheyenne Cason	9/24/2021 7:25:00 AM		Chul	
Completed By: Isaiah Ortiz	9/24/2021 8:01:27 AM		I_C	24
Reviewed By: KPG 9/2	14/21			
Chain of Custody				
1. Is Chain of Custody complete?	Ye	s 🗸	No 🗌	Not Present
2. How was the sample delivered?	Cc	urier		
Log In				
3. Was an attempt made to cool the samples?	Ye	5 🗸	No 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C Ye	5 🔽	No 🗌	
5. Sample(s) in proper container(s)?	Ye	5 🗸	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes		No 🗌	
7. Are samples (except VOA and ONG) properly	preserved? Yes		No 🗌	
8. Was preservative added to bottles?	Yes		No 🗹	NA 🗔
9. Received at least 1 vial with headspace <1/4" f	or AQ VOA? Yes		No 🗌	NA 🗹
10. Were any sample containers received broken?	Ye	, 🗆	No 🔽	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes		No 🗌	bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody? Yes	V	No 🗌	Adjusted?
13. Is it clear what analyses were requested?	Yes	V	No 🗌	/
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes		No 🗌	Checked by: THE 9.24-7
Special Handling (if applicable)				/
15. Was client notified of all discrepancies with this	s order? Ye		No 🗌	NA 🔽
Person Notified:	Date:		-	
By Whom:		1ail	Phone Fax	In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
and the second	Intact Seal No Seal I resent)ate	Signed By	

Page 1 of 1

Leo		,>					0:4)	9:41 A 1	<u>//</u>																-	Statis.	e 173 of
	HALL ENVIDONMENTAL	YSTS	www.hallenvironmental.com	ns NE - Albuquerque, NM 87109		Analysis Request		S '⊅Oq	0 ^{s,}	(A(10 ³	3 Me 3r, 1⁄ (AO)	PAHs b RCRA 8 8260 (V 8260 (V 8270 (S 70tal C	7									7			UC. 1. 1. 1. opin + U.S.	II EOG
				4901 Hawkins NE	Tel. 505-345-3975			- 1	280 282) 8/s	ere (GE	15D oitse	ХЭТВ 1911 8081 Р. 8081 Р. 8081 Р.	5									~ ~		トートート Remarks: アレ)))	Direct Bi
	Day					Q		williams		ON D		12+0.(=0.4 (°C)	HEAL No.	001	200	542	404	005	006	2007	008	000	010		Time	9/23/21 130	Date Time
	Time:			H III S	1000	01E-0231	iger:	2	970	D Yes		0	Preservative Type	ice									1		Via:	11MN	via: 6' counter al
	Turn-Around Time:	☑ Standard	Project Name:	Looper	Project #:	915-	Project Manager	Dennis	Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #		-										Received by:	CUALLA	
	ord	5						(alidation)						0	-	0	. 1	, Q	11	0	. 1	01	- 1			X	
	Chain-of-Custody Record	Resources	Settle					Level 4 (Full Validation)	Az Compliance				Sample Name	10-1CHO	BH21-01	BH21-02	BHAI-OA	BH21-03	BH21-03	191-0H	BHal-04	13Ha1-05	BH31-05		X V XAD	200	ed by:
	1-of-Cu	06 P						ä	D Az Co	□ Other			Matrix	56:1				0	0	20		0	-		Relinquisher)	Relinquished by:
	Chair	Client: EO	Chase	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	D NELAC	EDD (Type)		e Time	Sh:01 80/8	10:55	11:00	11:10	11:30	0 4:11	11:45	11:55	12:00	12:10		-	1/2/ 173C	5/21 1946
0	leased			Ma	2/24	Phe	em	NO D	Acc				Date	5										-	Date:	di-	alte:



October 26, 2021

Dennis Williams Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX

OrderNo.: 2110781

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Cooper AHH 1 Battery

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 21 sample(s) on 10/16/2021 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: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-04 2' Collection Date: 10/8/2021 10:55:00 AM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-001	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB			
Diesel Range Organics (DRO)	30	9.9	mg/Kg	1	10/20/2021 7:38:22 PM			
Motor Oil Range Organics (MRO)	68	49	mg/Kg	1	10/20/2021 7:38:22 PM			
Surr: DNOP	92.7	70-130	%Rec	1	10/20/2021 7:38:22 PM			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: mb			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 2:54:00 PM			
Surr: BFB	105	70-130	%Rec	1	10/19/2021 2:54:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: mb			
Benzene	ND	0.024	mg/Kg	1	10/19/2021 2:54:00 PM			
Toluene	ND	0.049	mg/Kg	1	10/19/2021 2:54:00 PM			
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 2:54:00 PM			
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2021 2:54:00 PM			
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	10/19/2021 2:54:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: VP			
Chloride	ND	60	mg/Kg	20	10/22/2021 8:38:37 AM			

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

Qualifiers:

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

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

Page 1 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-05 2' Collection Date: 10/8/2021 10:10:00 AM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-004	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 12:40:10 PM			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/19/2021 12:40:10 PM			
Surr: DNOP	120	70-130	%Rec	1	10/19/2021 12:40:10 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb			
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2021 3:14:00 PM			
Surr: BFB	102	70-130	%Rec	1	10/19/2021 3:14:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: mb			
Benzene	ND	0.023	mg/Kg	1	10/19/2021 3:14:00 PM			
Toluene	ND	0.046	mg/Kg	1	10/19/2021 3:14:00 PM			
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2021 3:14:00 PM			
Xylenes, Total	ND	0.091	mg/Kg	1	10/19/2021 3:14:00 PM			
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	10/19/2021 3:14:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: VP			
Chloride	ND	60	mg/Kg	20	10/22/2021 8:51:01 AM			

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

Qualifiers:

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

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

Page 2 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-05 3' Collection Date: 10/8/2021 10:15:00 AM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-005	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/19/2021 12:50:55 PM				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 12:50:55 PM				
Surr: DNOP	60.4	70-130	S %Rec	1	10/19/2021 12:50:55 PM				
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 3:33:00 PM				
Surr: BFB	106	70-130	%Rec	1	10/19/2021 3:33:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	10/19/2021 3:33:00 PM				
Toluene	ND	0.048	mg/Kg	1	10/19/2021 3:33:00 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 3:33:00 PM				
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2021 3:33:00 PM				
Surr: 4-Bromofluorobenzene	88.0	70-130	%Rec	1	10/19/2021 3:33:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	10/22/2021 9:03:26 AM				

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

Qualifiers:

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

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

Page 3 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-06 0' Collection Date: 10/8/2021 9:00:00 AM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-007	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	43	9.5	mg/Kg	1	10/20/2021 7:49:03 PM				
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	10/20/2021 7:49:03 PM				
Surr: DNOP	102	70-130	%Rec	1	10/20/2021 7:49:03 PM				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 4:32:00 PM				
Surr: BFB	103	70-130	%Rec	1	10/19/2021 4:32:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	10/19/2021 4:32:00 PM				
Toluene	ND	0.049	mg/Kg	1	10/19/2021 4:32:00 PM				
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 4:32:00 PM				
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2021 4:32:00 PM				
Surr: 4-Bromofluorobenzene	87.5	70-130	%Rec	1	10/19/2021 4:32:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	10/22/2021 9:15:51 AM				

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

Qualifiers:

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

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

Page 4 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-06 3' Collection Date: 10/8/2021 9:15:00 AM **Deceived Dete:** 10/16/2021 7:50:00 AM

Lab ID: 2110781-008	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/19/2021 1:12:35 PM				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 1:12:35 PM				
Surr: DNOP	126	70-130	%Rec	1	10/19/2021 1:12:35 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 4:51:00 PM				
Surr: BFB	105	70-130	%Rec	1	10/19/2021 4:51:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	10/19/2021 4:51:00 PM				
Toluene	ND	0.048	mg/Kg	1	10/19/2021 4:51:00 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 4:51:00 PM				
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2021 4:51:00 PM				
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	10/19/2021 4:51:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	10/22/2021 9:53:06 AM				

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

Qualifiers:

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

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

Page 5 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-07 0' Collection Date: 10/8/2021 12:00:00 PM **Becaived Date:** 10/16/2021 7:50:00 AM

Lab ID: 2110781-010	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	270	49	mg/Kg	5	10/20/2021 5:34:27 PM				
Motor Oil Range Organics (MRO)	540	250	mg/Kg	5	10/20/2021 5:34:27 PM				
Surr: DNOP	96.2	70-130	%Rec	5	10/20/2021 5:34:27 PM				
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 5:11:00 PM				
Surr: BFB	99.9	70-130	%Rec	1	10/19/2021 5:11:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	10/19/2021 5:11:00 PM				
Toluene	ND	0.048	mg/Kg	1	10/19/2021 5:11:00 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 5:11:00 PM				
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2021 5:11:00 PM				
Surr: 4-Bromofluorobenzene	83.6	70-130	%Rec	1	10/19/2021 5:11:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	91	60	mg/Kg	20	10/22/2021 10:05:31 AM				

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

Qualifiers:

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

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

Page 6 of 23

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-07 3' Collection Date: 10/8/2021 12:15:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-011	Matrix: SOIL	Rece	vived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/19/2021 2:31:35 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 2:31:35 PM
Surr: DNOP	92.0	70-130	%Rec	1	10/19/2021 2:31:35 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 5:30:00 PM
Surr: BFB	102	70-130	%Rec	1	10/19/2021 5:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 5:30:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2021 5:30:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 5:30:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2021 5:30:00 PM
Surr: 4-Bromofluorobenzene	84.6	70-130	%Rec	1	10/19/2021 5:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	350	60	mg/Kg	20	10/22/2021 10:17:55 AM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

10/22/2021 10:30:20 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-08 0' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 1:00:00 PM Lab ID: 2110781-013 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 10/19/2021 2:42:32 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 10/19/2021 2:42:32 PM Surr: DNOP 103 70-130 %Rec 1 10/19/2021 2:42:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 5:50:00 PM 4.9 mg/Kg 1 Surr: BFB 105 70-130 %Rec 1 10/19/2021 5:50:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 10/19/2021 5:50:00 PM 1 Toluene ND 0.049 mg/Kg 1 10/19/2021 5:50:00 PM Ethylbenzene ND 0.049 mg/Kg 1 10/19/2021 5:50:00 PM Xylenes, Total ND 0.099 mg/Kg 1 10/19/2021 5:50:00 PM Surr: 4-Bromofluorobenzene 88.8 70-130 %Rec 1 10/19/2021 5:50:00 PM Analyst: VP **EPA METHOD 300.0: ANIONS**

380

61

ma/Ka

20

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

Qualifiers:

Chloride

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

- 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
- Reporting Limit RL

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Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

10/22/2021 10:42:45 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-08 1' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 1:05:00 PM Lab ID: 2110781-014 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 10/19/2021 2:53:24 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 10/19/2021 2:53:24 PM Surr: DNOP 108 70-130 %Rec 1 10/19/2021 2:53:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 6:10:00 PM 4.8 mg/Kg 1 Surr: BFB 109 70-130 %Rec 1 10/19/2021 6:10:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 10/19/2021 6:10:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 10/19/2021 6:10:00 PM Ethylbenzene ND 0.048 mg/Kg 1 10/19/2021 6:10:00 PM Xylenes, Total ND 0.097 mg/Kg 1 10/19/2021 6:10:00 PM Surr: 4-Bromofluorobenzene 91.6 70-130 %Rec 1 10/19/2021 6:10:00 PM Analyst: VP **EPA METHOD 300.0: ANIONS**

340

60

ma/Ka

20

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

Qualifiers:

Chloride

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

- 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
- Reporting Limit RL

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report
Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-08 2' Collection Date: 10/8/2021 1:10:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-015	Matrix: SOIL	Rece	ived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/19/2021 3:04:25 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/19/2021 3:04:25 PM
Surr: DNOP	131	70-130 \$	S %Rec	1	10/19/2021 3:04:25 PM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 6:29:00 PM
Surr: BFB	99.8	70-130	%Rec	1	10/19/2021 6:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 6:29:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2021 6:29:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 6:29:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2021 6:29:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	10/19/2021 6:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	210	60	mg/Kg	20	10/22/2021 10:55:10 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-09 0' Collection Date: 10/8/2021 1:45:00 PM noiwed Deter 10/16/2021 7.50.00 AM ъ

Lab ID: 2110781-016	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 3:15:21 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 3:15:21 PM
Surr: DNOP	96.3	70-130	%Rec	1	10/19/2021 3:15:21 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 6:49:00 PM
Surr: BFB	101	70-130	%Rec	1	10/19/2021 6:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 6:49:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2021 6:49:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 6:49:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2021 6:49:00 PM
Surr: 4-Bromofluorobenzene	86.0	70-130	%Rec	1	10/19/2021 6:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	150	60	mg/Kg	20	10/22/2021 11:07:34 AM

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

Qualifiers:

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

- 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

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Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-09 2' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 1:55:00 PM Lab ID: 2110781-017 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 38 9.6 mg/Kg 1 10/20/2021 9:36:39 PM Motor Oil Range Organics (MRO) 96 48 mg/Kg 1 10/20/2021 9:36:39 PM Surr: DNOP 108 70-130 %Rec 1 10/20/2021 9:36:39 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 7:08:00 PM 4.9 mg/Kg 1 Surr: BFB 105 70-130 %Rec 1 10/19/2021 7:08:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 10/19/2021 7:08:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 10/19/2021 7:08:00 PM Ethylbenzene ND 0.049 mg/Kg 1 10/19/2021 7:08:00 PM Xylenes, Total ND 0.098 mg/Kg 1 10/19/2021 7:08:00 PM 10/19/2021 7:08:00 PM Surr: 4-Bromofluorobenzene 88.8 70-130 %Rec 1 Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 60 10/22/2021 11:19:59 AM 130 ma/Ka 20

Refer to the QC Summary 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 POL
- Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- 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
- Reporting Limit RL

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Released to Imaging: 2/24/2023 2:37:49 PM

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-10 0' Collection Date: 10/8/2021 2:00:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-018	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/19/2021 3:37:13 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/19/2021 3:37:13 PM
Surr: DNOP	87.3	70-130	%Rec	1	10/19/2021 3:37:13 PM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2021 7:28:00 PM
Surr: BFB	103	70-130	%Rec	1	10/19/2021 7:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	10/19/2021 7:28:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2021 7:28:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2021 7:28:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2021 7:28:00 PM
Surr: 4-Bromofluorobenzene	83.9	70-130	%Rec	1	10/19/2021 7:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 11:32:25 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report
Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-10 2' Collection Date: 10/8/2021 2:10:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-019	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/21/2021 5:48:23 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/21/2021 5:48:23 AM
Surr: DNOP	115	70-130	%Rec	1	10/21/2021 5:48:23 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2021 8:11:00 PM
Surr: BFB	97.1	70-130	%Rec	1	10/20/2021 8:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/20/2021 8:11:00 PM
Toluene	ND	0.049	mg/Kg	1	10/20/2021 8:11:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2021 8:11:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/20/2021 8:11:00 PM
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	10/20/2021 8:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 11:44:49 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-11 0' Collection Date: 10/8/2021 2:15:00 PM **Deceived Dete:** 10/16/2021 7:50:00 AM

Lab ID: 2110781-020	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	12	9.8	mg/Kg	1	10/21/2021 5:58:59 AM
Motor Oil Range Organics (MRO)	51	49	mg/Kg	1	10/21/2021 5:58:59 AM
Surr: DNOP	106	70-130	%Rec	1	10/21/2021 5:58:59 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2021 9:10:00 PM
Surr: BFB	105	70-130	%Rec	1	10/20/2021 9:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/20/2021 9:10:00 PM
Toluene	ND	0.047	mg/Kg	1	10/20/2021 9:10:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2021 9:10:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2021 9:10:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	10/20/2021 9:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 12:22:03 PM

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

Qualifiers:

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

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Released to Imaging: 2/24/2023 2:37:49 PM

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-11 2' Collection Date: 10/8/2021 2:25:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-021	Matrix: SOIL	Rece	ived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/21/2021 6:09:35 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/21/2021 6:09:35 AM
Surr: DNOP	85.5	70-130	%Rec	1	10/21/2021 6:09:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/20/2021 10:09:00 PM
Surr: BFB	100	70-130	%Rec	1	10/20/2021 10:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	10/20/2021 10:09:00 PM
Toluene	ND	0.050	mg/Kg	1	10/20/2021 10:09:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/20/2021 10:09:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/20/2021 10:09:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	10/20/2021 10:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	99	61	mg/Kg	20	10/22/2021 12:59:18 PM

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

Qualifiers:

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

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Client: Project:		esources Ser .HH 1 Batte	,	Inc.							
Sample ID: M	1B-63465	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	300.0: Anion:	S		
Client ID: P	BS	Batch	ID: 634	465	F	RunNo: 8 2	2233				
Prep Date:	10/21/2021	Analysis Da	te: 10)/22/2021	5	SeqNo: 2	915810	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chionde		ND	1.5								
Sample ID: L	CS-63465	SampTy	pe: LC	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 634	465	F	RunNo: 8 2	2233				
Prep Date:	10/21/2021	Analysis Da	te: 10)/22/2021	S	SeqNo: 2	915811	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	93.8	90	110			
Sample ID: M	IB-63489	SampTy	pe: mk	olk	Tes	tCode: El	PA Method	300.0: Anion:	s		
Client ID: P	BS	Batch	ID: 634	489	F	RunNo: 8 2	2259				
Prep Date:	10/22/2021	Analysis Da	te: 10)/22/2021	5	SeqNo: 2	917878	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-63489	SampTy	pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: L	css	Batch	ID: 634	489	F	RunNo: 8 2	2259				
Prep Date:	10/22/2021	Analysis Da	te: 10)/22/2021	S	SeqNo: 2	917879	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.4	90	110			

Qualifiers:

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

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

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2110781

26-Oct-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Resources Services, Inc. AHH 1 Battery		
Sample ID: MB-63366	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 63366	RunNo: 82153	
Prep Date: 10/18/2021	Analysis Date: 10/19/2021	SeqNo: 2910930	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 11 10	00 109 70	130
	11 10	109 70	130
Sample ID: MB-63393	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 63393	RunNo: 82185	
Prep Date: 10/19/2021	Analysis Date: 10/20/2021	SeqNo: 2914634	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 11 10	00 112 70	130
			100
Sample ID: LCS-63393	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 63393	RunNo: 82185	
Prep Date: 10/19/2021	Analysis Date: 10/20/2021	SeqNo: 2914635	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	56 10 50		135
Surr: DNOP	5.8 5.0	00 116 70	130
Sample ID: LCS-63366	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 63366	RunNo: 82184	
Prep Date: 10/18/2021	Analysis Date: 10/20/2021	SeqNo: 2914776	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50		135
Surr: DNOP	5.0 5.0	00 100 70	130
Sample ID: LCS-63449	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 63449	RunNo: 82184	
Prep Date: 10/20/2021	Analysis Date: 10/21/2021	SeqNo: 2916079	Units: %Rec
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.3 5.0	00 106 70	130

Qualifiers:

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

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

2110781

26-Oct-21

2110781

26-Oct-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Resources Cooper AHH 1 Ba		, Inc.							
Sample ID: MB-634	49 Samp	Туре: М	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Bate	Batch ID: 63449 RunNo: 82184								
Prep Date: 10/20/	2021 Analysis	Date: 1	0/21/2021	S	eqNo: 29	916080	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID:mb-63356SampType:MBLKTestCode:EPA Method 8015D:Gasoline RangeClient ID:PBSBatch ID:63356RunNo:82158Prep Date:10/18/2021Analysis Date:10/19/2021SeqNo:2910913Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.0Sample ID:Ics-63356SampType:LCSTestCode:EPA Method 8015D:Gasoline RangeClient ID:LCSSBatch ID:63356RunNo:82158ReqNo:2911927Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)295.025.00011878.6131Sample ID:ms/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)295.025.00011770130Sample ID:ms/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range10/18/2021Analysis Date:10/20/2021SeqNo:2913955Units:mg/KgAnalyteResultPQLSPK valueSPK Ref
Prep Date:10/18/2021Analysis Date:10/19/2021SeqNo:2910913Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GR0)ND5.0Surr: BFB990100098.870130Sample ID:Ics-63356SampType:LCSTestCode:EPA Method 8015D:Gasoline RangeClient ID:LCSSBatch ID:63356RunNo:82158Prep Date:10/18/2021Analysis Date:10/19/2021SeqNo:2911927Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GR0)295.025.00011878.6131Sur:SerpType:MalyteResultPQLSPK ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GR0)295.025.00011878.6131Sur:SerpType:MalyteResultResu
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.0Surr: BFB990100098.870130Sample ID:Ics-63356SampType:LCSTestCode:EPA Method 8015D:Gasoline RangeClient ID:LCSSBatch ID:63356RunNo:82158Prep Date:10/18/2021Analysis Date:10/19/2021SeqNo:2911927Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)295.025.00011878.6131Surr: BFB1200100011770130Sample ID:mb-63360SampType:MBLKTestCode:EPA Method 8015D:Gasoline RangeClient ID:Batch ID:63360RunNo:82187Prep Date:10/18/2021Analysis Date:10/20/2021SeqNo:2913955Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.0Surr: BFB100010070130SurrSurr: BFB1000100010070130SurrSurrSurrSurrGasoline Range Organics (GRO)ND5.0Sur
Gasoline Range Organics (GR0) ND 5.0 Surr: BFB 990 1000 98.8 70 130 Sample ID: Ics-63356 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 63356 RunNo: 82158 Prep Date: 10/18/2021 Analysis Date: 10/19/2021 SeqNo: 2911927 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GR0) 29 5.0 25.00 0 118 78.6 131 Surr: BFB 1200 1000 117 70 130 130 Sample ID: mb63360 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 63360 RunNo: 82187 Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg
Surr: BFB 990 1000 98.8 70 130 Sample ID: Ics-63356 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 63356 RunNo: 82158 Prep Date: 10/18/2021 Analysis Date: 10/19/2021 SeqNo: 2911927 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 29 5.0 25.00 0 118 78.6 131 Surr: BFB 1200 1000 117 70 130 Sample ID: mb-63360 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 63360 RunNo: 82187 Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg Analyte Result PQL SPK value
Client ID: LCSS Batch ID: 63356 RunNo: 82158 Prep Date: 10/18/2021 Analysis Date: 10/19/2021 SeqNo: 2911927 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 29 5.0 25.00 0 118 78.6 131 Surr: BFB 1200 1000 117 70 130 100 117 70 130 Sample ID: mb-63360 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 63360 RunNo: 82187 Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 Sur: BFB 1000 10
Prep Date: 10/18/2021 Analysis Date: 10/19/2021 SeqNo: 2911927 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 29 5.0 25.00 0 118 78.6 131 Surr: BFB 1200 1000 117 70 130 70 130 Sample ID: mb-63360 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 63360 RunNo: 82187 Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 Sur: BFB 1000 1000 100 70 130
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)295.025.00011878.6131Surr: BFB1200100011770130Sample ID: mb-63360SampType: MBLKTestCode: EPA Method 8015D: Gasoline RangeClient ID:PBSBatch ID:63360RunNo:82187Prep Date:10/18/2021Analysis Date:10/20/2021SeqNo:2913955Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.05.05.05.05.05.05.05.0Surr: BFB10001000100701305.05.05.0
Gasoline Range Organics (GRO)295.025.00011878.6131Surr: BFB1200100011770130Sample ID: mb-63360SampType: MBLKTestCode: EPA Method 8015D: Gasoline RangeClient ID:PBSBatch ID: 63360RunNo: 82187Prep Date:10/18/2021Analysis Date:10/20/2021SeqNo: 2913955Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.0Surr: BFB100010070130130
Surr: BFB1200100011770130Sample ID: mb-63360SampType: MBLKTestCode: EPA Method 8015D: Gasoline RangeClient ID: PBSBatch ID: 63360RunNo: 82187Prep Date:10/18/2021Analysis Date:10/20/2021SeqNo:2913955Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)NDSurr: BFB100010001007010070
Sample ID:mb-63360SampType:MBLKTestCode:EPA Method 8015D:Gasoline RangeClient ID:PBSBatch ID:63360RunNo:82187Prep Date:10/18/2021Analysis Date:10/20/2021SeqNo:2913955Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.0Surr:BFB1000100010070130
Client ID: PBS Batch ID: 63360 RunNo: 82187 Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0
Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913955 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 100 70 130
Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 100 70 130
Surr: BFB 1000 1000 100 70 130
Sample ID: Ics-63360 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS Batch ID: 63360 RunNo: 82187
Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913957 Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 30 5.0 25.00 0 120 78.6 131
Surr: BFB 1200 1000 122 70 130
Sample ID: 2110781-019ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH21-10 2' Batch ID: 63360 RunNo: 82187
Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913959 Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 29 4.8 23.81 0 120 61.3 114 S
Surr: BFB 1200 952.4 121 70 130
Sample ID: 2110781-019amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH21-10 2' Batch ID: 63360 RunNo: 82187
Prep Date: 10/18/2021 Analysis Date: 10/20/2021 SeqNo: 2913961 Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

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

ND Not Detected at the Reporting Limit

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

- 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

2110781

26-Oct-21

Client: Project:		esources S .HH 1 Batt		, Inc.							
Sample ID:	2110781-019amsd	SampT	ype: M S	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	BH21-10 2'	Batch	n ID: 63	360	F	unNo: 82	2187				
Prep Date:	10/18/2021	Analysis D	ate: 10)/20/2021	S	eqNo: 2	913961	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	29	4.8	23.99	0	120	61.3	114	0.765	20	S
Surr: BFB		1200		959.7		122	70	130	0	0	

Qualifiers:

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

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

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2110781

26-Oct-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	r Resources S r AHH 1 Bat		Inc.							
Sample ID: mb-63356	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 63	356	F	RunNo: 82	2158				
Prep Date: 10/18/2021	Analysis D	Date: 10	/19/2021	S	SeqNo: 2	910914	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.3	70	130			
Sample ID: Ics-63356	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 63:	356	F	RunNo: 82	2158				
Prep Date: 10/18/2021	Analysis D	Date: 10	/19/2021	S	SeqNo: 29	911967	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.5	80	120			
Toluene	0.90	0.050	1.000	0	90.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.5	70	130			
Sample ID: mb-63360	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 63:	360	F	RunNo: 82	2187				
Prep Date: 10/18/2021	Analysis D	Date: 10	/20/2021	S	SeqNo: 29	914003	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			
Sample ID: Ics-63360	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 63	360	F	RunNo: 8 2	2187				
Prep Date: 10/18/2021	Analysis D	Date: 10	/20/2021	S	SeqNo: 29	914005	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	70	130			

Qualifiers:

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

- 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

2110781

26-Oct-21

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Project: Cooper A	AHH 1 Bat	tery								
Sample ID: 2110781-020ams	s Sampī	Туре: МS	;	Tes						
Client ID: BH21-11 0'	Batc	h ID: 633	360	F	RunNo: 8 2	2187				
Prep Date: 10/18/2021	Analysis [Analysis Date: 10/20/2021			SeqNo: 29	914007	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9625	0	90.3	80	120			
Toluene	0.91	0.048	0.9625	0	95.0	80	120			
Ethylbenzene	0.94	0.048	0.9625	0	97.7	80	120			
Xylenes, Total	2.9	0.096	2.887	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.92		0.9625		95.7	70	130			
Sample ID: 2110781-020ams	d Samp	Туре: МS	D	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: BH21-11 0'	_									
Choncies. Bilzi-IIV	Batc	h ID: 633	360	F	?unNo: 8	2187				
Prep Date: 10/18/2021	Batc Analysis [RunNo: 8 2 SeqNo: 2 9		Units: mg/K	g		
)/20/2021				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 10/18/2021	Analysis [Date: 10)/20/2021	S	SeqNo: 29	914009	•	•	RPDLimit 20	Qual
Prep Date: 10/18/2021 Analyte	Analysis I Result	Date: 10 PQL)/20/2021 SPK value	SPK Ref Val	SeqNo: 29 %REC	914009 LowLimit	HighLimit	%RPD		Qual
Prep Date: 10/18/2021 Analyte Benzene Toluene	Analysis I Result 0.90	Date: 10 PQL 0.025	0/20/2021 SPK value 0.9891	SPK Ref Val	SeqNo: 29 %REC 91.2	914009 LowLimit 80	HighLimit 120	%RPD 3.73	20	Qual
Prep Date: 10/18/2021 Analyte Benzene	Analysis I Result 0.90 0.95	Date: 10 PQL 0.025 0.049	0/20/2021 SPK value 0.9891 0.9891	SPK Ref Val 0 0	SeqNo: 29 %REC 91.2 95.9	214009 LowLimit 80 80	HighLimit 120 120	%RPD 3.73 3.65	20 20	Qual

Qualifiers:

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

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

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WO#: **2110781**

26-Oct-21

TEL: 505-345-3	ntal Analysis Labo 4901 Hawki Albuquerque, NM 975 FAX: 505-345 s.hallenvironmento	ns NE 87109 Sam -4107	ple Log-In Check Li	Page I
/ork Order Numl	ber: 2110781		RcptNo: 1	
6/2021 7:50:00	AM	Chul Chul		
6/2021 8:39:49 \\ 7 (AM	And		
	Yes 🗸	No 🗌	Not Present	
	Courier			
	Yes 🗹	No 🗌		
C to C 0°C	N	No 🗍		

ANAL	RONMENTAL YSIS Ratory		A 505-345-39 site: clients.	lbuquerq 75 FAX:	ue, NM 505-34	5-4107	mple Log-In C	heck List
Client Name:	Vertex Resources Services, Inc.	Work Or	der Numb	er: 211(0781		RcptNo:	1
Received By:	Cheyenne Cason	10/16/202	1 7:50:00	AM		chul		
Completed By:	Cheyenne Cason	10/16/202	1 8:39:49	AM		Chent Chent		
Reviewed By:	IO	10/18/21						
Chain of Cus	stody							
1. Is Chain of C	custody complete?			Yes	V	No 🗌	Not Present	
2. How was the	sample delivered?			Cou	rier			
Log In								
3. Was an atten	npt made to cool the san	nples?		Yes	~	No 🗌	NA 🗌	
4. Were all sam	ples received at a tempe	rature of >0° C to 6	5.0°C	Yes	~	No 🗌	NA 🗌	
5. Sample(s) in	proper container(s)?			Yes	~	No 🗌		
6. Sufficient sam	nple volume for indicated	test(s)?		Yes	~	No 🗌		
7. Are samples ((except VOA and ONG) p	properly preserved?	6	Yes	~	No 🗌		
8. Was preserva	ative added to bottles?			Yes		No 🔽	NA 🗌	
9. Received at le	east 1 vial with headspac	e <1/4" for AQ VOA	?	Yes		No 🗌	NA 🔽	
10. Were any sar	mple containers received	broken?		Yes		No 🗹	# of preserved	1
	ork match bottle labels? ancies on chain of custod	dv)		Yes	~	No 🗌	bottles checked for pH:	>12 unless noted)
	correctly identified on Ch			Yes		No 🗌	Adjusted?	The difference includy
	t analyses were requeste			Yes		No 🗌	/	
	ng times able to be met? ustomer for authorization			Yes	~	No 🗌	Checked by	e lollaly
Special Handl	ling (if applicable)							
	otified of all discrepancies	s with this order?		Yes		No 🗌	NA 🔽	
Person	Notified:		Date:	_				
By Who	om:		Via:	□ eMa	ul 🗌	Phone Fax	In Person	
Regard	ing:							
Client In	nstructions:							
16. Additional rel	marks:							
17. Cooler Infor	mation							
Cooler No	Temp °C Condition	n Seal Intact S	eal No	Seal Da	ate	Signed By		
1	2.6 Good							
2	0.8 Good							

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Received by OCD: 8/30/2022 10:49:41 AM HALL

Received by OCD: 8/30/2022 1):49:41 AM		ge 199 of 602
HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's BDB (Method 504.1) PPHs by 8310 or 8270SIMS RCRA 8 Metals (CI,F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	7 7 7 9 1 1 1 9 1 1 1 9 1 1 1 9 1 1 1 1 1 1 1 1 1 <th>Time: Relinquished by: Received by: Via: No. Date Time PUD DU <td< th=""></td<></th>	Time: Relinquished by: Received by: Via: No. Date Time PUD DU DU <td< th=""></td<>
	BTEX) MTBE / TMB's (8021)		this possi
Turn-Around Time: 5 Day Standard 1 Rush Project Name: Couper AHH #1 Batery Project #: 21E - 03278	Project Manager: Dennis Williams sampler: MJP Sampler: MJP on Ice: Pres No # of Coolers: 2 2.6-02.6 Cooler Temp(metualing cr):6.8-020.6 (°C Container Preservative HEAL No. Type and # Type 2110781	Received by:	Received by: Via: Date Time <i>Curr Curr (U/IG/a, G750)</i> contracted to other accredited laboratories. This serves as notice of th
Client: EOG / いんと Client: EOG / いんと とろけし Mailing Address: Phone #:	email or Fax#: QA/QC Package: CA/CC Package: Candard Level 4 (Full Validation) Accreditation: Az Compliance Accreditation: Az Compliance D NELAC Other Candard Accreditation D Standard Accreditation Candard Accreditation	O S $ 0:55 $ $ S $ $ S $ $ O $ $ S $ $ 1:0s $ $ S $ $ S $ $ O $ $ S $ $ O $ $ S $ $ 1:0s $ $ S $ $ S $ $ O $ $ O $ $ S $ $ O $ $ S $ $ 1:0s $ $ S $ $ S $ $ O $ $ O $ $ O $ $ S $ $ 0:15 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ 0:15 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ 0:15 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ 0:16 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ 1:0:20 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ 1:0:20 $ $ S $ $ S $ $ S $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $ $ O $	Date: Time: Relinquished by: COSA 1900 0.00 If necessary, samples submitted to Hall Environmental may be subco

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I urn-Around Time: 5 0 ℃ 1	Project Name: Coopur ANH #1 Battery	Project #: 21E - 03278	Project Manager:	1.1	Sampler: (ハ丁우 On Ice: 정 Yes 기 No	olers: 2 2	1: CO .8- 0	Container Preservative HEAL No. Type and # Type 2110781	02	1 014	015	016	017	018	014	020	1 1 021			Received by: Via: Date Time	
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	Mailing Address:	Phone #:	email or Fax#: QA/QC Package:	Standard	Accreditation:	EDD (Type)		e Time	-	1:0	1.1	1:1	5:1	3.	0	2:15	2:25	-		Time:	Time:
Client:	Mai	Pho Pho	QA		Acc			Date	10/8								-			Date:	Date: VOIS

Released to Imaging: 2/24/2023 2:37:49 PM



November 03, 2021

Dennis Williams Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2110781

RE: Cooper AHH 1 Battery

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 21 sample(s) on 10/16/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 26,2021.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-001

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-04 2' Collection Date: 10/8/2021 10:55:00 AM Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	30	9.9	mg/Kg	1	10/20/2021 7:38:22 PM
Motor Oil Range Organics (MRO)	68	49	mg/Kg	1	10/20/2021 7:38:22 PM
Surr: DNOP	92.7	70-130	%Rec	1	10/20/2021 7:38:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 2:54:00 PM
Surr: BFB	105	70-130	%Rec	1	10/19/2021 2:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 2:54:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2021 2:54:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 2:54:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2021 2:54:00 PM
Surr: 4-Bromofluorobenzene	91.9	70-130	%Rec	1	10/19/2021 2:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 8:38:37 AM

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

Qualifiers:

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

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

Page 1 of 24

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

10/28/2021 1:45:42 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-04 3' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 11:00:00 AM Lab ID: 2110781-002 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 31 9.4 н mg/Kg 1 10/28/2021 4:09:01 PM Motor Oil Range Organics (MRO) 61 47 н mg/Kg 1 10/28/2021 4:09:01 PM Surr: DNOP 103 70-130 н %Rec 1 10/28/2021 4:09:01 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 10/29/2021 12:45:00 PM 4.7 н mg/Kg 1 Surr: BFB 97.3 70-130 н %Rec 1 10/29/2021 12:45:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 Н mg/Kg 10/29/2021 12:45:00 PM 1 Toluene ND 0.047 Н mg/Kg 1 10/29/2021 12:45:00 PM Ethylbenzene ND 0.047 н mg/Kg 1 10/29/2021 12:45:00 PM Xylenes, Total ND 0.094 н mg/Kg 1 10/29/2021 12:45:00 PM Surr: 4-Bromofluorobenzene 98.1 70-130 н %Rec 1 10/29/2021 12:45:00 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA

ND

60

ma/Ka

20

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

Qualifiers:

Chloride

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

- 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
- Reporting Limit RL

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-004

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-05 2' Collection Date: 10/8/2021 10:10:00 AM Received Date: 10/16/2021 7:50:00 AM

Eub ID: 2110/01/001	Multim Boll	nee	liveu Dutei	10/10/	2021 7.50.00 7101
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 12:40:10 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/19/2021 12:40:10 PM
Surr: DNOP	120	70-130	%Rec	1	10/19/2021 12:40:10 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2021 3:14:00 PM
Surr: BFB	102	70-130	%Rec	1	10/19/2021 3:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	10/19/2021 3:14:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2021 3:14:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2021 3:14:00 PM
Xylenes, Total	ND	0.091	mg/Kg	1	10/19/2021 3:14:00 PM
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	10/19/2021 3:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 8:51:01 AM

Matrix: SOIL

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- 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 3 of 24

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-05 3' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 10:15:00 AM Lab ID: 2110781-005 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 10/19/2021 12:50:55 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 10/19/2021 12:50:55 PM Surr: DNOP 60.4 70-130 S %Rec 1 10/19/2021 12:50:55 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 3:33:00 PM 4.8 mg/Kg 1 Surr: BFB 106 70-130 %Rec 1 10/19/2021 3:33:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 10/19/2021 3:33:00 PM 1 Toluene ND 0.048 mg/Kg 1 10/19/2021 3:33:00 PM Ethylbenzene ND 0.048 mg/Kg 1 10/19/2021 3:33:00 PM Xylenes, Total ND 0.096 mg/Kg 1 10/19/2021 3:33:00 PM Surr: 4-Bromofluorobenzene 88.0 70-130 %Rec 1 10/19/2021 3:33:00 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 10/22/2021 9:03:26 AM ma/Ka 20

Refer to the QC Summary 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
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- 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
- Reporting Limit RL

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-007

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-06 0' Collection Date: 10/8/2021 9:00:00 AM Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	43	9.5	mg/Kg	1	10/20/2021 7:49:03 PM
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	10/20/2021 7:49:03 PM
Surr: DNOP	102	70-130	%Rec	1	10/20/2021 7:49:03 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 4:32:00 PM
Surr: BFB	103	70-130	%Rec	1	10/19/2021 4:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 4:32:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2021 4:32:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 4:32:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2021 4:32:00 PM
Surr: 4-Bromofluorobenzene	87.5	70-130	%Rec	1	10/19/2021 4:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 9:15:51 AM

Matrix: SOIL

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- 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 24

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-06 3' Collection Date: 10/8/2021 9:15:00 AM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-008	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/19/2021 1:12:35 PM				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 1:12:35 PM				
Surr: DNOP	126	70-130	%Rec	1	10/19/2021 1:12:35 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 4:51:00 PM				
Surr: BFB	105	70-130	%Rec	1	10/19/2021 4:51:00 PM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	10/19/2021 4:51:00 PM				
Toluene	ND	0.048	mg/Kg	1	10/19/2021 4:51:00 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 4:51:00 PM				
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2021 4:51:00 PM				
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	10/19/2021 4:51:00 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	10/22/2021 9:53:06 AM				

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

Qualifiers:

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

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

Page 6 of 24

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-07 0' Collection Date: 10/8/2021 12:00:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-010	Matrix: SOIL	Rece	Received Date: 10/16/2021 7:50:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB					
Diesel Range Organics (DRO)	270	49	mg/Kg	5	10/20/2021 5:34:27 PM					
Motor Oil Range Organics (MRO)	540	250	mg/Kg	5	10/20/2021 5:34:27 PM					
Surr: DNOP	96.2	70-130	%Rec	5	10/20/2021 5:34:27 PM					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: mb					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 5:11:00 PM					
Surr: BFB	99.9	70-130	%Rec	1	10/19/2021 5:11:00 PM					
EPA METHOD 8021B: VOLATILES					Analyst: mb					
Benzene	ND	0.024	mg/Kg	1	10/19/2021 5:11:00 PM					
Toluene	ND	0.048	mg/Kg	1	10/19/2021 5:11:00 PM					
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 5:11:00 PM					
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2021 5:11:00 PM					
Surr: 4-Bromofluorobenzene	83.6	70-130	%Rec	1	10/19/2021 5:11:00 PM					
EPA METHOD 300.0: ANIONS					Analyst: VP					
Chloride	91	60	mg/Kg	20	10/22/2021 10:05:31 AM					

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

Qualifiers:

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

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

Page 7 of 24

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

10/19/2021 5:30:00 PM Analyst: VP

10/22/2021 10:17:55 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-07 3' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 12:15:00 PM Lab ID: 2110781-011 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 10/19/2021 2:31:35 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 10/19/2021 2:31:35 PM Surr: DNOP 92.0 70-130 %Rec 1 10/19/2021 2:31:35 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 5:30:00 PM 4.8 mg/Kg 1 Surr: BFB 102 70-130 %Rec 1 10/19/2021 5:30:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 10/19/2021 5:30:00 PM 1 Toluene ND 0.048 mg/Kg 1 10/19/2021 5:30:00 PM Ethylbenzene ND 0.048 mg/Kg 1 10/19/2021 5:30:00 PM Xylenes, Total ND 0.097 mg/Kg 1 10/19/2021 5:30:00 PM

EPA METHOD 300.0: ANIONS Chloride 350 60 ma/Ka 20

84.6

70-130

%Rec

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

- 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
- Reporting Limit RL

Page 8 of 24

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-013

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-08 0' Collection Date: 10/8/2021 1:00:00 PM Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 2:42:32 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/19/2021 2:42:32 PM
Surr: DNOP	103	70-130	%Rec	1	10/19/2021 2:42:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2021 5:50:00 PM
Surr: BFB	105	70-130	%Rec	1	10/19/2021 5:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	10/19/2021 5:50:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2021 5:50:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2021 5:50:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2021 5:50:00 PM
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	10/19/2021 5:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	380	61	mg/Kg	20	10/22/2021 10:30:20 AN

Matrix: SOIL

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

Qualifiers:

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

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Lab ID:

Analyses

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-08 1' Cooper AHH 1 Battery Collection Date: 10/8/2021 1:05:00 PM 2110781-014 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB

EPA METHOD 8015M/D: DIESEL RANGE ORGANI	65				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/19/2021 2:53:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 2:53:24 PM
Surr: DNOP	108	70-130	%Rec	1	10/19/2021 2:53:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 6:10:00 PM
Surr: BFB	109	70-130	%Rec	1	10/19/2021 6:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/19/2021 6:10:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2021 6:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 6:10:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2021 6:10:00 PM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	10/19/2021 6:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	340	60	mg/Kg	20	10/22/2021 10:42:45 AM

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

Qualifiers:

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

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

Page 10 of 24

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-015

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-08 2' Collection Date: 10/8/2021 1:10:00 PM Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/19/2021 3:04:25 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/19/2021 3:04:25 PM
Surr: DNOP	131	70-130	S	%Rec	1	10/19/2021 3:04:25 PM
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2021 6:29:00 PM
Surr: BFB	99.8	70-130		%Rec	1	10/19/2021 6:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/19/2021 6:29:00 PM
Toluene	ND	0.049		mg/Kg	1	10/19/2021 6:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2021 6:29:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/19/2021 6:29:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	10/19/2021 6:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	210	60		mg/Kg	20	10/22/2021 10:55:10 AM

Matrix: SOIL

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

Qualifiers:

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

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-09 0' Collection Date: 10/8/2021 1:45:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-016	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2021 3:15:21 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2021 3:15:21 PM	
Surr: DNOP	96.3	70-130	%Rec	1	10/19/2021 3:15:21 PM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2021 6:49:00 PM	
Surr: BFB	101	70-130	%Rec	1	10/19/2021 6:49:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: mb	
Benzene	ND	0.024	mg/Kg	1	10/19/2021 6:49:00 PM	
Toluene	ND	0.048	mg/Kg	1	10/19/2021 6:49:00 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2021 6:49:00 PM	
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2021 6:49:00 PM	
Surr: 4-Bromofluorobenzene	86.0	70-130	%Rec	1	10/19/2021 6:49:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	150	60	mg/Kg	20	10/22/2021 11:07:34 AM	

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

Qualifiers:

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

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

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Released to Imaging: 2/24/2023 2:37:49 PM

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

10/19/2021 7:08:00 PM

10/22/2021 11:19:59 AM

Analyst: VP

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-09 2' **Project:** Cooper AHH 1 Battery Collection Date: 10/8/2021 1:55:00 PM Lab ID: 2110781-017 Matrix: SOIL Received Date: 10/16/2021 7:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 38 9.6 mg/Kg 1 10/20/2021 9:36:39 PM Motor Oil Range Organics (MRO) 96 48 mg/Kg 1 10/20/2021 9:36:39 PM Surr: DNOP 108 70-130 %Rec 1 10/20/2021 9:36:39 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 10/19/2021 7:08:00 PM 4.9 mg/Kg 1 Surr: BFB 105 70-130 %Rec 1 10/19/2021 7:08:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 10/19/2021 7:08:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 10/19/2021 7:08:00 PM Ethylbenzene ND 0.049 mg/Kg 1 10/19/2021 7:08:00 PM Xylenes, Total ND 0.098 mg/Kg 1 10/19/2021 7:08:00 PM

88.8

130

70-130

60

%Rec

ma/Ka

1

20

EPA METHOD 300.0: ANIONS Chloride

Surr: 4-Bromofluorobenzene

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

Qualifiers:

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

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2110781-018

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-10 0' Collection Date: 10/8/2021 2:00:00 PM Received Date: 10/16/2021 7:50:00 AM

Lub ID: 2110/01/010	Matrix: SOIL	Received Dute: 10/10/2021 7.50.00 7101				
Analyses	Result	RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/19/2021 3:37:13 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/19/2021 3:37:13 PM	
Surr: DNOP	87.3	70-130	%Rec	1	10/19/2021 3:37:13 PM	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: mb	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2021 7:28:00 PM	
Surr: BFB	103	70-130	%Rec	1	10/19/2021 7:28:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: mb	
Benzene	ND	0.023	mg/Kg	1	10/19/2021 7:28:00 PM	
Toluene	ND	0.046	mg/Kg	1	10/19/2021 7:28:00 PM	
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2021 7:28:00 PM	
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2021 7:28:00 PM	
Surr: 4-Bromofluorobenzene	83.9	70-130	%Rec	1	10/19/2021 7:28:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	ND	60	mg/Kg	20	10/22/2021 11:32:25 AM	

Matrix: SOIL

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

Qualifiers:

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

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Released to Imaging: 2/24/2023 2:37:49 PM

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-10 2' Collection Date: 10/8/2021 2:10:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-019	Matrix: SOIL	Received Date: 10/16/2021 7:50:00 AM				
Analyses	Result	RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/21/2021 5:48:23 AM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/21/2021 5:48:23 AM	
Surr: DNOP	115	70-130	%Rec	1	10/21/2021 5:48:23 AM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2021 8:11:00 PM	
Surr: BFB	97.1	70-130	%Rec	1	10/20/2021 8:11:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: mb	
Benzene	ND	0.024	mg/Kg	1	10/20/2021 8:11:00 PM	
Toluene	ND	0.049	mg/Kg	1	10/20/2021 8:11:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2021 8:11:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	10/20/2021 8:11:00 PM	
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	10/20/2021 8:11:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	ND	60	mg/Kg	20	10/22/2021 11:44:49 AM	

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

Qualifiers:

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

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

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-11 0' Collection Date: 10/8/2021 2:15:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-020	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	12	9.8	mg/Kg	1	10/21/2021 5:58:59 AM
Motor Oil Range Organics (MRO)	51	49	mg/Kg	1	10/21/2021 5:58:59 AM
Surr: DNOP	106	70-130	%Rec	1	10/21/2021 5:58:59 AM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2021 9:10:00 PM
Surr: BFB	105	70-130	%Rec	1	10/20/2021 9:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	10/20/2021 9:10:00 PM
Toluene	ND	0.047	mg/Kg	1	10/20/2021 9:10:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2021 9:10:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2021 9:10:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	10/20/2021 9:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	10/22/2021 12:22:03 PM

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

Qualifiers:

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

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

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 1 Battery

Analytical Report Lab Order 2110781

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-11 2' Collection Date: 10/8/2021 2:25:00 PM Received Date: 10/16/2021 7:50:00 AM

Lab ID: 2110781-021	Matrix: SOIL	Rece	eived Date:	10/16/	2021 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/21/2021 6:09:35 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/21/2021 6:09:35 AM
Surr: DNOP	85.5	70-130	%Rec	1	10/21/2021 6:09:35 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/20/2021 10:09:00 PM
Surr: BFB	100	70-130	%Rec	1	10/20/2021 10:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	10/20/2021 10:09:00 PM
Toluene	ND	0.050	mg/Kg	1	10/20/2021 10:09:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/20/2021 10:09:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/20/2021 10:09:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	10/20/2021 10:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	99	61	mg/Kg	20	10/22/2021 12:59:18 PM

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

Qualifiers:

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

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

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Client: Project:		Resources Services, Inc. AHH 1 Battery				
Sample ID:	: MB-63465	SampType: MBLK	TestCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 63465	RunNo: 82233			
Prep Date:	10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2915810	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5				
Sample ID:	: LCS-63465	SampType: LCS	TestCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID: 63465	RunNo: 82233			
Prep Date:	10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2915811	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		14 1.5 15.00	0 93.8 90	110		
Sample ID:	: MB-63489	SampType: mblk	TestCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 63489	RunNo: 82259			
Prep Date:	10/22/2021	Analysis Date: 10/22/2021	SeqNo: 2917878	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5				
Sample ID:	: LCS-63489	SampType: Ics	TestCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID: 63489	RunNo: 82259			
Prep Date:	10/22/2021	Analysis Date: 10/22/2021	SeqNo: 2917879	Units: mg/Kg		
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		15 1.5 15.00	0 97.4 90	110		
Sample ID:	: MB-63632	SampType: mblk	TestCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 63632	RunNo: 82423			
Prep Date:	10/28/2021	Analysis Date: 10/28/2021	SeqNo: 2925056	Units: mg/Kg		
Analyte						Qual
		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Quai
Chloride		Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLIMIL	Quai
Chloride	: LCS-63632		SPK Ref Val %REC LowLimit		RPDLIMI	Quai
Chloride		ND 1.5			RPDLIMI	
Chloride Sample ID:	LCSS	ND 1.5 SampType: Ics	TestCode: EPA Method			
Chloride Sample ID: Client ID:	LCSS	ND 1.5 SampType: Ics Batch ID: 63632 Analysis Date: 10/28/2021	TestCode: EPA Method RunNo: 82423	300.0: Anions	RPDLimit	Qual

Qualifiers:

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

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

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2110781

03-Nov-21

WO#:

Client:

Project:

Sample ID: MB-63366

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

SampType: MBLK

Cooper AHH 1 Battery

	2110781
	03-Nov-21
Range Organics	
	I Range Organics

Client ID: PBS	Batch	ID: 633	366	F	unNo: 82	2153				
Prep Date: 10/18/2021	Analysis Da	ate: 10	/19/2021	S	eqNo: 29	910930	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			
Sample ID: MB-63393	SampTy	ype: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 633	393	F	unNo: 82	2185				
Prep Date: 10/19/2021	Analysis Da	ate: 10	/20/2021	S	eqNo: 29	914634	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	70	130			
Sample ID: LCS-63393	SampTy	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 633	393	F	unNo: 82	2185				
Prep Date: 10/19/2021	Analysis Da	ate: 10	/20/2021	S	eqNo: 29	914635	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	135			
Surr: DNOP	5.8		5.000		116	70	130			
Sample ID: LCS-63366	SampTy	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 633	366	F	unNo: 82	2184				
Prep Date: 10/18/2021	Analysis Da	ate: 10	/20/2021	S	eqNo: 29	914776	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		. ~-			/01.120		0			
Blood Hange enganies (Brite)	47	10	50.00	0	94.9	68.9	135			
Surr: DNOP							-			
•••	47 5.0		50.00 5.000	0	94.9 100	68.9 70	135	esel Range	e Organics	
Surr: DNOP	47 5.0 SampTy	10	50.00 5.000	0 Tes	94.9 100	68.9 70 PA Method	135 130	esel Range	e Organics	
Surr: DNOP Sample ID: 2110781-002AMS	47 5.0 SampTy	10 ype: MS ID: 636	50.00 5.000	0 Tes F	94.9 100 tCode: EF	68.9 70 PA Method 2434	135 130	-	e Organics	
Surr: DNOP Sample ID: 2110781-002AMS Client ID: BH21-04 3'	47 5.0 SampTy Batch	10 ype: MS ID: 636	50.00 5.000 5 613 0/28/2021	0 Tes F	94.9 100 tCode: EF RunNo: 82 SeqNo: 29	68.9 70 PA Method 2434	135 130 8015M/D: Die	-	e Organics	Qual
Surr: DNOP Sample ID: 2110781-002AMS Client ID: BH21-04 3' Prep Date: 10/27/2021	47 5.0 SampTy Batch Analysis Da	10 ype: MS ID: 636 ate: 10	50.00 5.000 5 613 0/28/2021	0 Tes F S	94.9 100 tCode: EF RunNo: 82 SeqNo: 29	68.9 70 PA Method 2434 924897	135 130 8015M/D: Die Units: mg/K	g	-	Qual H

Qualifiers:

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

	x Resources Servic er AHH 1 Battery	ces, Inc.							
Sample ID: 2110781-0024	MSD SampType:	MSD	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH21-04 3'	Batch ID:	63613	F	RunNo: 82	434		-	-	
Prep Date: 10/27/2021	Analysis Date:	10/28/2021	S	SeqNo: 29	24898	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	80 9 5.2	9.7 48.36 4.836	30.69	102 108	39.3 70	155 130	22.9 0	23.4 0	н Н
Sample ID: LCS-63613	SampType:	LCS	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	63613	F	RunNo: 82	434				
Prep Date: 10/27/2021	Analysis Date:	10/28/2021	S	SeqNo: 29	24945	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	50 5.4	10 50.00 5.000	0	101 108	68.9 70	135 130			
Sample ID: MB-63613	SampType:	MBLK	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID:	63613	F	RunNo: 82	434				
Prep Date: 10/27/2021	Analysis Date:	10/28/2021	S	SeqNo: 29	24947	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Notor Oil Range Organics (MRO	ND	50							
Surr: DNOP	11	10.00		106	70	130			

Qualifiers:

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- D Sample Diluted Due to Matrix
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- S % Recovery outside of range due to dilution or matrix

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

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WO#:

	esources Services, Inc. AHH 1 Battery								
Sample ID: mb-63356	SampType: MBLK		Tes	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: PBS	Batch ID: 63356		R	lunNo: 82	2158				
Prep Date: 10/18/2021	Analysis Date: 10/19/2	2021	S	eqNo: 29	910913	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 990	1000		98.8	70	130			
Sample ID: Ics-63356	SampType: LCS		Test	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: LCSS	Batch ID: 63356		R	unNo: 82	2158				
Prep Date: 10/18/2021	Analysis Date: 10/19/2	2021	S	eqNo: 29	911927	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29 5.0	25.00	0	118	78.6	131			
Surr: BFB	1200	1000		117	70	130			
Sample ID: mb-63360	SampType: MBLK		Tes	tCode: EF	PA Method	8015D: Gaso	line Range	9	
Client ID: PBS	Batch ID: 63360		R	unNo: 82	2187				
Prep Date: 10/18/2021	Analysis Date: 10/20/2	2021	S	eqNo: 29	913955	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1000	1000		100	70	130			
Sample ID: Ics-63360	SampType: LCS		Tes	tCode: EF	PA Method	8015D: Gaso	line Range	9	
Client ID: LCSS	Batch ID: 63360		R	unNo: 82	2187				
Prep Date: 10/18/2021	Analysis Date: 10/20/2	2021	S	eqNo: 29	913957	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30 5.0	25.00	0	120	78.6	131			
Surr: BFB	1200	1000		122	70	130			
Sample ID: 2110781-019ams	SampType: MS		Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BH21-10 2'	Batch ID: 63360		R	tunNo: 82	2187				
Prep Date: 10/18/2021	Analysis Date: 10/20/2	2021	S	eqNo: 29	913959	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29 4.8	23.81	0	120	61.3	114			S
Surr: BFB	1200	952.4		121	70	130			
Sample ID: 2110781-019amsd	SampType: MSD		Tes	tCode: EF	PA Method	8015D: Gaso	line Range	9	
Client ID: BH21-10 2'	Batch ID: 63360		R	unNo: 82	2187				
Prep Date: 10/18/2021	Analysis Date: 10/20/2	2021	S	eqNo: 29	913961	Units: mg/K	g		
Analyte	Result PQL SPI	< value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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WO#:

	Resources Servi AHH 1 Battery								
Sample ID: 2110781-019ams	d SampType:	MSD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BH21-10 2'	Batch ID:	63360	F	RunNo: 82	2187				
Prep Date: 10/18/2021	Analysis Date:	10/20/2021	S	SeqNo: 29	913961	Units: mg/K	g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8 23.99	0	120	61.3	114	0.765	20	S
Surr: BFB	1200	959.7		122	70	130	0	0	
Sample ID: Ics-63603	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID:	63603	F	RunNo: 82	2466				
Prep Date: 10/27/2021	Analysis Date:	10/29/2021	S	SeqNo: 29	926053	Units: mg/K	g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0 25.00	0	109	78.6	131			
Surr: BFB	1100	1000		108	70	130			
Sample ID: mb-63603	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID:	63603	F	RunNo: 82	2466				
Prep Date: 10/27/2021	Analysis Date:	10/29/2021	S	SeqNo: 29	926054	Units: mg/K	g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	950	1000		95.0	70	130			

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- E Value above quantitation range
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- P Sample pH Not In Range
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	r Resources S r AHH 1 Bat		Inc.							
Sample ID: mb-63356	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 63	356	F	RunNo: 82	2158				
Prep Date: 10/18/2021	Analysis D	Date: 10	/19/2021	S	SeqNo: 2	910914	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.3	70	130			
Sample ID: Ics-63356	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 63:	356	F	RunNo: 82	2158				
Prep Date: 10/18/2021	Analysis D	Date: 10	/19/2021	S	SeqNo: 29	911967	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.5	80	120			
Toluene	0.90	0.050	1.000	0	90.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.5	70	130			
Sample ID: mb-63360	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 63:	360	F	RunNo: 82	2187				
Prep Date: 10/18/2021	Analysis D	Date: 10	/20/2021	S	SeqNo: 29	914003	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			
Sample ID: Ics-63360	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 63	360	F	RunNo: 8 2	2187				
Prep Date: 10/18/2021	Analysis D	Date: 10	/20/2021	S	SeqNo: 29	914005	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	70	130			

Qualifiers:

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- E Value above quantitation range
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- P Sample pH Not In Range
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2110781

03-Nov-21

WO#:

Client:Vertex ReProject:Cooper Al			Inc.							
Sample ID: 2110781-020ams	Samp ⁻	Гуре: МS	6	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: BH21-11 0'	Batc	h ID: 63	360	F	RunNo: 82	2187				
Prep Date: 10/18/2021	Analysis [Date: 10)/20/2021	S	SeqNo: 29	914007	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9625	0	90.3	80	120			
Toluene	0.91	0.048	0.9625	0	95.0	80	120			
Ethylbenzene	0.94	0.048	0.9625	0	97.7	80	120			
Xylenes, Total	2.9	0.096	2.887	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.92		0.9625		95.7	70	130			
Sample ID: 2110781-020amsd	Samp	Гуре: МS	SD	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: BH21-11 0'	Batc	h ID: 63:	360	F	RunNo: 8 2	2187				
Prep Date: 10/18/2021	Analysis [Date: 10)/20/2021	5	SeqNo: 29	914009	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9891	0	91.2	80	120	3.73	20	
Toluene	0.95	0.049	0.9891	0	95.9	80	120	3.65	20	
Ethylbenzene	0.98	0.049	0.9891	0	99.1	80	120	4.13	20	
Xylenes, Total	3.0	0.099	2.967	0	103	80	120	3.52	20	
Surr: 4-Bromofluorobenzene	0.94		0.9891		95.2	70	130	0	0	
Sample ID: Ics-63603	Samp ⁻	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 63	603	F	RunNo: 8 2	2466				
Prep Date: 10/27/2021	Analysis [Date: 10)/29/2021	S	SeqNo: 29	926074	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			
Sample ID: mb-63603	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 63	603	F	RunNo: 8 2	2466				
Prep Date: 10/27/2021	Analysis [Date: 10)/29/2021	S	SeqNo: 29	926075	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

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

Reporting Limit RL

WO#: 2110781

03-Nov-21

	Page	226	of	602
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ANALY	ONMENTAL SIS ATORY	TEL: 50		01 Hawkins pue, NM 87 505-345-4	NE 109 Sar 107	nple Log-In Check L
Client Name:	Vertex Resources Services, Inc.	Work Ord	er Number: 211	0781		RcptNo: 1
Received By:	Cheyenne Cason	10/16/2021	7:50:00 AM		chul	
Completed By:	Cheyenne Cason	10/16/2021	8:39:49 AM		Chul Chul	
Reviewed By:	IO	10/18/21				
Chain of Cust	ody					
1. Is Chain of Cu	stody complete?		Yes	~	No 🗌	Not Present
2. How was the s	ample delivered?		Cou	rier		
Log In					1.2	1.1.25
3. Was an attemp	ot made to cool the sam	ples?	Yes		No 🗌	
4. Were all sampl	es received at a temper	ature of >0° C to 6.	0°C Yes	~	No 🗌	NA 🗌
5. Sample(s) in p	roper container(s)?		Yes		No 🗌	
6. Sufficient samp	le volume for indicated	test(s)?	Yes	~	No.	
7. Are samples (e	xcept VOA and ONG) p	roperly preserved?	Yes	~	No 🗌	
8. Was preservati	ve added to bottles?		Yes		No 🗹	NA 🗌
9. Received at lea	st 1 vial with headspace	e <1/4" for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any sam	ple containers received	broken?	Yes		No 🗹	# of preserved
	k match bottle labels? Icies on chain of custod	v)	Yes		No 🗌	bottles checked for pH: 2 or >12 unless r
	prrectly identified on Cha		Yes	V	No 🗌	Adjusted?
13. Is it clear what	analyses were requeste	d?			No 🗌	
	g times able to be met? stomer for authorization.)	Yes		No 🗌	Checked by Cvc 10/10
	ng (if applicable)					
15. Was client noti	fied of all discrepancies	with this order?	Yes		No 🗌	NA 🔽
Person N	lotified:		Date:			
By Whon	n:		Via: 🗌 eMa	ail 🗌 Phe	one 🗌 Fax	In Person
Regardin	g:					
Client Ins	structions:					
16. Additional rem	arks:					
17. <u>Cooler Inform</u>	and the second					
Cooler No 1	Temp °C Condition	Seal Intact Se	al No Seal Da	ate S	Signed By	
10	2.6 Good					

Page 1 of 1

Received by OCD: 8/30/2022	10:49:41 AM		Page 227 of 60.
 HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATORY ANALYSIS LABORATORY ANALYSIS LABORATORY 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Tel. 505-345-3975 Fax 505-345-4107 	BTEX) MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS R260 (VOA) 8260 (VOA) 8250 (Semi-VOA) 10tal Coliform (Present/Absent) Total Coliform (Present/Absent)	A A A A A A A A A A A A A A A A A A A	Imme: Relinquished by: Meceived by: Via: Date Time Remarks: CC: Mep; Time: Relinquished by: Received by: Via: Date Time 1940 MM Mu Cu Cu U/I (c/a) 0760 1940 Mu Cu Cu U/I (c/a) 0760 D/I cd 16 Mu Cu Cu U/I (c/a) 0760 D/I cd
Turn-Around Time: 5 Day Standard a Rush Project Name: COUPER AHH #1 Battery Project #: 01E - 03278	Project Manager: Dennis Will'ams sampler: MJP on Ice: Preservative HEAL No. Cooler Temp(Including cr): ©. 8 - 0 200. 8 (°C) Container Preservative HEAL No. Type and # Type 2110781	1 C C C 201 C C 202 C C C 2 C C 2 C C C 2	Received by: Via: Date Time R Received by: Via: Date Time Con Cour UV IG/a 0750 N Intracted to other accredited laboratories. This serves as notice of this is
Client: EOG / VLA-ex Client: EOG / VLA-ex Cathl L Mailing Address:	email or Fax#: QA/QC Package: CA/QC Package: Catandard Level 4 (Full Validation) Accreditation: Az Compliance Cata Cother Cata Cata Cother Cata Cata Cother Cata Cother Cata Cata Cother Cata Cother Cata Cata Cata Cother Cata Cata Cata Cata Cata Cata Cata Cata	82082062060	3_

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Standard Rush	Project Name: Coopur ANH #1 Battery	Project #: 21E - 03278	Project Manager: Denn's Will!ams	Sampler: (MJP On loe: Zer Yes Do	olers: 2 2	10.8-010.8	Container Preservative HEAL No. Type and # Type 2110781	ice	1 014	015	016	017	018	019	020	1 1 021		, ce	CMXXXXX 10 10 1000 1000	Received by: Via: Date Time
5			ation)					0	1	6	0	io	0	5	0	ā			/	
EOG / UNTER	٤		□ Level 4 (Full Validation)	□ Az Compliance □ Other			Matrix Sample Name	o:1 BH21-08	1 BH21-08	BH21-08	BH21-09	8H21-09	8H21 - 10	BH21-10	11-1CH8	11-1CH8 1		Bolineri itchod hu		Relinquished by:
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	> by Br	e #:	email or Fax#: QA/QC Package: □ Standard	Accreditation:	EDD (Type)		Time	-	1				3	0	d	ä		Time.		M 19m
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Released to Imaging: 2/24/2023 2:37:49 PM



November 30, 2021

Dennis Williams Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2111923

RE: Cooper AAH 1 Row

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 20 sample(s) on 11/18/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-01 0' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 8:45:00 AM Lab ID: 2111923-001 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 11/23/2021 7:17:29 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 11/23/2021 7:17:29 PM Surr: DNOP 88.7 70-130 %Rec 1 11/23/2021 7:17:29 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/19/2021 10:31:00 PM 4.9 mg/Kg 1 Surr: BFB 95.4 70-130 %Rec 1 11/19/2021 10:31:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb 11/19/2021 10:31:00 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 11/19/2021 10:31:00 PM Ethylbenzene ND 0.049 mg/Kg 1 11/19/2021 10:31:00 PM Xylenes, Total ND 0.097 mg/Kg 1 11/19/2021 10:31:00 PM %Rec Surr: 4-Bromofluorobenzene 91.0 70-130 1 11/19/2021 10:31:00 PM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 11/23/2021 5:08:34 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-01 1' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 8:50:00 AM Lab ID: 2111923-002 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 11/23/2021 7:49:06 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 11/23/2021 7:49:06 PM Surr: DNOP 86.3 70-130 %Rec 1 11/23/2021 7:49:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/19/2021 11:30:00 PM 4.9 mg/Kg 1 Surr: BFB 93.0 70-130 %Rec 1 11/19/2021 11:30:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/19/2021 11:30:00 PM 1 Toluene ND 0.049 mg/Kg 1 11/19/2021 11:30:00 PM Ethylbenzene ND 0.049 mg/Kg 1 11/19/2021 11:30:00 PM Xylenes, Total ND 0.097 mg/Kg 1 11/19/2021 11:30:00 PM Surr: 4-Bromofluorobenzene 88.6 70-130 %Rec 1 11/19/2021 11:30:00 PM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 59 11/23/2021 5:45:47 AM ma/Ka 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-01 2' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 8:55:00 AM Lab ID: 2111923-003 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 11/23/2021 7:59:41 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 11/23/2021 7:59:41 PM Surr: DNOP 70.2 70-130 %Rec 1 11/23/2021 7:59:41 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 12:28:00 AM 4.8 mg/Kg 1 Surr: BFB 96.1 70-130 %Rec 1 11/20/2021 12:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb 11/20/2021 12:28:00 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 11/20/2021 12:28:00 AM Ethylbenzene ND 0.048 mg/Kg 1 11/20/2021 12:28:00 AM Xylenes, Total ND 0.096 mg/Kg 1 11/20/2021 12:28:00 AM Surr: 4-Bromofluorobenzene 90.9 70-130 %Rec 1 11/20/2021 12:28:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 11/23/2021 6:47:48 AM ma/Ka 20

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

Qualifiers:

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

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

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Surr: 4-Bromofluorobenzene

Chloride

Analytical Report Lab Order 2111923

Date Reported: 11/30/2021

11/20/2021 12:48:00 AM Analyst: JMT

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-01 3' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:00:00 AM Lab ID: 2111923-004 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 11/24/2021 1:56:40 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 11/24/2021 1:56:40 PM Surr: DNOP 98.4 70-130 %Rec 1 11/24/2021 1:56:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 12:48:00 AM 4.9 mg/Kg 1 Surr: BFB 93.6 70-130 %Rec 1 11/20/2021 12:48:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/20/2021 12:48:00 AM 1 Toluene ND 0.049 mg/Kg 1 11/20/2021 12:48:00 AM Ethylbenzene ND 0.049 mg/Kg 1 11/20/2021 12:48:00 AM Xylenes, Total ND 0.097 mg/Kg 1 11/20/2021 12:48:00 AM

EPA METHOD 300.0: ANIONS 120 60 11/23/2021 7:00:12 AM ma/Ka 20

70-130

%Rec

1

90.5

Refer to the QC Summary 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
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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
- Reporting Limit RL

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Date Reported: 11/30/2021

11/23/2021 7:12:36 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-01 4' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:05:00 AM Lab ID: 2111923-005 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 11/23/2021 8:20:51 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 11/23/2021 8:20:51 PM Surr: DNOP 71.3 70-130 %Rec 1 11/23/2021 8:20:51 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 1:08:00 AM 4.7 mg/Kg 1 Surr: BFB 95.6 70-130 %Rec 1 11/20/2021 1:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.023 mg/Kg 11/20/2021 1:08:00 AM 1 Toluene ND 0.047 mg/Kg 1 11/20/2021 1:08:00 AM Ethylbenzene ND 0.047 mg/Kg 1 11/20/2021 1:08:00 AM Xylenes, Total ND 0.094 mg/Kg 1 11/20/2021 1:08:00 AM Surr: 4-Bromofluorobenzene 91.3 70-130 %Rec 1 11/20/2021 1:08:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS**

210

60

ma/Ka

20

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

Qualifiers:

Chloride

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

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

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EPA METHOD 300.0: ANIONS

Chloride

Analytical Report
Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-02 0' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:10:00 AM Lab ID: 2111923-006 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 11/23/2021 8:31:29 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 11/23/2021 8:31:29 PM Surr: DNOP 79.1 70-130 %Rec 1 11/23/2021 8:31:29 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 1:27:00 AM 4.7 mg/Kg 1 Surr: BFB 92.2 70-130 %Rec 1 11/20/2021 1:27:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb 11/20/2021 1:27:00 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 11/20/2021 1:27:00 AM Ethylbenzene ND 0.047 mg/Kg 1 11/20/2021 1:27:00 AM Xylenes, Total ND 0.094 mg/Kg 1 11/20/2021 1:27:00 AM Surr: 4-Bromofluorobenzene 89.9 70-130 %Rec 1 11/20/2021 1:27:00 AM

ND

60

ma/Ka

20

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

Qualifiers:

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

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

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Analyst: JMT

11/23/2021 7:25:01 AM

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-02 1' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:15:00 AM Lab ID: 2111923-007 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 11/23/2021 8:42:06 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 11/23/2021 8:42:06 PM Surr: DNOP 81.5 70-130 %Rec 1 11/23/2021 8:42:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 1:47:00 AM 4.7 mg/Kg 1 Surr: BFB 96.3 70-130 %Rec 1 11/20/2021 1:47:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/20/2021 1:47:00 AM 1 Toluene ND 0.047 mg/Kg 1 11/20/2021 1:47:00 AM Ethylbenzene ND 0.047 mg/Kg 1 11/20/2021 1:47:00 AM Xylenes, Total ND 0.094 mg/Kg 1 11/20/2021 1:47:00 AM Surr: 4-Bromofluorobenzene 91.6 70-130 %Rec 1 11/20/2021 1:47:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 11/23/2021 7:37:25 AM ma/Ka 20

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

Qualifiers:

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

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

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AAH 1 Row

Analytical Report
Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-02 2' Collection Date: 11/16/2021 9:20:00 AM Received Date: 11/18/2021 8:45:00 AM

Lab ID: 2111923-008	Matrix: SOIL	Received Date: 11/18/2021 8:45:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	11/24/2021 2:20:30 PM				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	11/24/2021 2:20:30 PM				
Surr: DNOP	87.1	70-130	%Rec	1	11/24/2021 2:20:30 PM				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: mb				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/20/2021 2:07:00 AM				
Surr: BFB	98.2	70-130	%Rec	1	11/20/2021 2:07:00 AM				
EPA METHOD 8021B: VOLATILES					Analyst: mb				
Benzene	ND	0.024	mg/Kg	1	11/20/2021 2:07:00 AM				
Toluene	ND	0.049	mg/Kg	1	11/20/2021 2:07:00 AM				
Ethylbenzene	ND	0.049	mg/Kg	1	11/20/2021 2:07:00 AM				
Xylenes, Total	ND	0.097	mg/Kg	1	11/20/2021 2:07:00 AM				
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	11/20/2021 2:07:00 AM				
EPA METHOD 300.0: ANIONS					Analyst: JMT				
Chloride	ND	60	mg/Kg	20	11/23/2021 7:49:49 AM				

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-02 3' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:25:00 AM Lab ID: 2111923-009 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 11/24/2021 2:44:19 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 11/24/2021 2:44:19 PM Surr: DNOP 88.4 70-130 %Rec 1 11/24/2021 2:44:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 2:26:00 AM 5.0 mg/Kg 1 Surr: BFB 95.4 70-130 %Rec 1 11/20/2021 2:26:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 11/20/2021 2:26:00 AM 1 Toluene ND 0.050 mg/Kg 1 11/20/2021 2:26:00 AM Ethylbenzene ND 0.050 mg/Kg 1 11/20/2021 2:26:00 AM Xylenes, Total ND 0.10 mg/Kg 1 11/20/2021 2:26:00 AM Surr: 4-Bromofluorobenzene 91.6 70-130 %Rec 1 11/20/2021 2:26:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 240 60 11/23/2021 8:02:14 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-02 4' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:30:00 AM Lab ID: 2111923-010 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 11/24/2021 3:08:06 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 11/24/2021 3:08:06 PM Surr: DNOP 81.3 70-130 %Rec 1 11/24/2021 3:08:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 2:46:00 AM 4.8 mg/Kg 1 Surr: BFB 94.0 70-130 %Rec 1 11/20/2021 2:46:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/20/2021 2:46:00 AM 1 Toluene ND 0.048 mg/Kg 1 11/20/2021 2:46:00 AM Ethylbenzene ND 0.048 mg/Kg 1 11/20/2021 2:46:00 AM Xylenes, Total ND 0.096 mg/Kg 1 11/20/2021 2:46:00 AM Surr: 4-Bromofluorobenzene 91.8 70-130 %Rec 1 11/20/2021 2:46:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 220 59 11/23/2021 8:14:38 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-03 0' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:35:00 AM Lab ID: 2111923-011 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 11/23/2021 9:25:16 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 11/23/2021 9:25:16 PM Surr: DNOP 88.1 70-130 %Rec 1 11/23/2021 9:25:16 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 3:45:00 AM 4.8 mg/Kg 1 Surr: BFB 96.7 70-130 %Rec 1 11/20/2021 3:45:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/20/2021 3:45:00 AM 1 Toluene ND 0.048 mg/Kg 1 11/20/2021 3:45:00 AM Ethylbenzene ND 0.048 mg/Kg 1 11/20/2021 3:45:00 AM Xylenes, Total ND 0.097 mg/Kg 1 11/20/2021 3:45:00 AM %Rec Surr: 4-Bromofluorobenzene 89.6 70-130 1 11/20/2021 3:45:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 11/23/2021 8:27:03 AM ma/Ka 20

Refer to the QC Summary 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 POL
- Practical Quanitative Limit

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

- 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

Reporting Limit RL

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-03 1' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:40:00 AM Lab ID: 2111923-012 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 11/23/2021 9:36:08 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 11/23/2021 9:36:08 PM Surr: DNOP 84.9 70-130 %Rec 1 11/23/2021 9:36:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 4:04:00 AM 4.9 mg/Kg 1 Surr: BFB 95.6 70-130 %Rec 1 11/20/2021 4:04:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 11/20/2021 4:04:00 AM 1 Toluene ND 0.049 mg/Kg 1 11/20/2021 4:04:00 AM Ethylbenzene ND 0.049 mg/Kg 1 11/20/2021 4:04:00 AM Xylenes, Total ND 0.099 mg/Kg 1 11/20/2021 4:04:00 AM %Rec Surr: 4-Bromofluorobenzene 89.5 70-130 1 11/20/2021 4:04:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 11/23/2021 8:39:27 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-03 2' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:45:00 AM Lab ID: 2111923-013 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 11/23/2021 9:46:59 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 11/23/2021 9:46:59 PM Surr: DNOP 89.7 70-130 %Rec 1 11/23/2021 9:46:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 4:24:00 AM 5.0 mg/Kg 1 Surr: BFB 94.1 70-130 %Rec 1 11/20/2021 4:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 11/20/2021 4:24:00 AM 1 Toluene ND 0.050 mg/Kg 1 11/20/2021 4:24:00 AM Ethylbenzene ND 0.050 mg/Kg 1 11/20/2021 4:24:00 AM Xylenes, Total ND 0.10 mg/Kg 1 11/20/2021 4:24:00 AM Surr: 4-Bromofluorobenzene 89.9 70-130 %Rec 1 11/20/2021 4:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 140 59 11/23/2021 9:16:39 AM ma/Ka 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-03 3' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 9:50:00 AM Lab ID: 2111923-014 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 11/23/2021 9:57:48 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 11/23/2021 9:57:48 PM Surr: DNOP 83.7 70-130 %Rec 1 11/23/2021 9:57:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 4:43:00 AM 4.9 mg/Kg 1 Surr: BFB 94.6 70-130 %Rec 1 11/20/2021 4:43:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 11/20/2021 4:43:00 AM 1 Toluene ND 0.049 mg/Kg 1 11/20/2021 4:43:00 AM Ethylbenzene ND 0.049 mg/Kg 1 11/20/2021 4:43:00 AM Xylenes, Total ND 0.098 mg/Kg 1 11/20/2021 4:43:00 AM Surr: 4-Bromofluorobenzene 89.6 70-130 %Rec 1 11/20/2021 4:43:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 260 60 11/23/2021 9:29:03 AM ma/Ka 20

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

Qualifiers:

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

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

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Project:

Lab ID:

Analyses

Analytical Report Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-03 4' Cooper AAH 1 Row Collection Date: 11/16/2021 9:55:00 AM 2111923-015 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 11/23/2021 10:08:36 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 11/23/2021 10:08:36 PM Surr: DNOP 78.6 70-130 %Rec 1 11/23/2021 10:08:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 5:03:00 AM 4.9 mg/Kg 1 Surr: BFB 95.4 70-130 %Rec 1 11/20/2021 5:03:00 AM FPA METHOD 8021B. VOLATILES Analyst mb Λ

EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	11/20/2021 5:03:00 AM
Toluene	ND	0.049	mg/Kg	1	11/20/2021 5:03:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	11/20/2021 5:03:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	11/20/2021 5:03:00 AM
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	11/20/2021 5:03:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	200	60	mg/Kg	20	11/23/2021 9:41:28 AM

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

Qualifiers:

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

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

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Released to Imaging: 2/24/2023 2:37:49 PM

CLIENT: Vertex Resources Services, Inc.

Project: Cooper AAH 1 Row

Analytical Report Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-04 0' Collection Date: 11/16/2021 10:00:00 AM Received Date: 11/18/2021 8:45:00 AM

Lab ID: 2111923-016	Matrix: SOIL	Rece	eived Date:	11/18/	2021 8:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/23/2021 10:19:22 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/23/2021 10:19:22 PM
Surr: DNOP	83.7	70-130	%Rec	1	11/23/2021 10:19:22 PM
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/20/2021 5:22:00 AM
Surr: BFB	93.5	70-130	%Rec	1	11/20/2021 5:22:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	11/20/2021 5:22:00 AM
Toluene	ND	0.049	mg/Kg	1	11/20/2021 5:22:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	11/20/2021 5:22:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	11/20/2021 5:22:00 AM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	11/20/2021 5:22:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/23/2021 9:53:53 AM

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

Qualifiers:

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

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

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Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AAH 1 Row

2111923-017

Analytical Report
Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: BH21-04 1'

 Collection Date: 11/16/2021 10:05:00 AM

 Matrix: SOIL
 Received Date: 11/18/2021 8:45:00 AM

 Page1t
 Page Applyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/23/2021 10:30:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/23/2021 10:30:09 PM
Surr: DNOP	96.9	70-130	%Rec	1	11/23/2021 10:30:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/20/2021 5:42:00 AM
Surr: BFB	95.4	70-130	%Rec	1	11/20/2021 5:42:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	11/20/2021 5:42:00 AM
Toluene	ND	0.050	mg/Kg	1	11/20/2021 5:42:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	11/20/2021 5:42:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	11/20/2021 5:42:00 AM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	11/20/2021 5:42:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/23/2021 10:06:17 AM

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-04 2' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 10:10:00 AM Lab ID: 2111923-018 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 11/23/2021 10:40:54 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 11/23/2021 10:40:54 PM Surr: DNOP 71.4 70-130 %Rec 1 11/23/2021 10:40:54 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 6:01:00 AM 4.8 mg/Kg 1 Surr: BFB 97.4 70-130 %Rec 1 11/20/2021 6:01:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 11/20/2021 6:01:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 11/20/2021 6:01:00 AM Ethylbenzene ND 0.048 mg/Kg 1 11/20/2021 6:01:00 AM Xylenes, Total ND 0.096 mg/Kg 1 11/20/2021 6:01:00 AM Surr: 4-Bromofluorobenzene 88.7 70-130 %Rec 1 11/20/2021 6:01:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 69 61 11/23/2021 10:18:42 AM ma/Ka 20

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

Qualifiers:

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

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

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Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH21-04 3' **Project:** Cooper AAH 1 Row Collection Date: 11/16/2021 10:15:00 AM Lab ID: 2111923-019 Matrix: SOIL Received Date: 11/18/2021 8:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 11/23/2021 10:51:38 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 11/23/2021 10:51:38 PM Surr: DNOP 95.6 70-130 %Rec 1 11/23/2021 10:51:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 11/20/2021 6:21:00 AM 4.8 mg/Kg 1 Surr: BFB 95.7 70-130 %Rec 1 11/20/2021 6:21:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 11/20/2021 6:21:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 11/20/2021 6:21:00 AM Ethylbenzene ND 0.048 mg/Kg 1 11/20/2021 6:21:00 AM Xylenes, Total ND 0.096 mg/Kg 1 11/20/2021 6:21:00 AM Surr: 4-Bromofluorobenzene 90.9 70-130 %Rec 1 11/20/2021 6:21:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 59 11/23/2021 10:31:06 AM 150 ma/Ka 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AAH 1 Row

Analytical Report Lab Order 2111923

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-04 4' Collection Date: 11/16/2021 10:20:00 AM Received Date: 11/18/2021 8:45:00 AM

Lab ID: 2111923-020	Matrix: SOIL	Reco	eived Date:	11/18/	2021 8:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/23/2021 11:02:20 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/23/2021 11:02:20 PM
Surr: DNOP	95.4	70-130	%Rec	1	11/23/2021 11:02:20 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/20/2021 6:40:00 AM
Surr: BFB	95.3	70-130	%Rec	1	11/20/2021 6:40:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	11/20/2021 6:40:00 AM
Toluene	ND	0.047	mg/Kg	1	11/20/2021 6:40:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	11/20/2021 6:40:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	11/20/2021 6:40:00 AM
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	11/20/2021 6:40:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	130	60	mg/Kg	20	11/23/2021 10:43:31 AM

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

Qualifiers:

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

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

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Client: Project:		Resources Se AAH 1 Row		Inc.							
Sample ID: M	IB-64114	SampT	ype: m t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: P	BS	Batch	ID: 64	114	R	RunNo: 83	3063				
Prep Date:	11/22/2021	Analysis D	ate: 11	/23/2021	S	SeqNo: 29	950447	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-64114	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 64	114	R	RunNo: 83	3063				
Prep Date:	11/22/2021	Analysis D	ate: 11	/23/2021	S	SeqNo: 29	950448	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		16	1.5	15.00	0	108	90	110			

Qualifiers:

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

2111923

30-Nov-21

WO#:

Client:		esources Se	rvices	, Inc.							
Project:	Cooper A	AH 1 Row									
Sample ID: 21	111923-001AMS	SampTy	pe: M \$	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: B	H21-01 0'	Batch	ID: 64	081	F	RunNo: 8	3061				
Prep Date:	11/22/2021	Analysis Da	ite: 1 1	1/23/2021	S	SeqNo: 2	951657	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	46	9.9	49.65	0	92.2	39.3	155			
Surr: DNOP		4.2		4.965		83.9	70	130			
Sample ID: 21	111923-001AMSE	SampTy	pe: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: B	H21-01 0'	Batch	ID: 64	081	F	RunNo: 8	3061				
Prep Date:	11/22/2021	Analysis Da	ite: 1 1	1/23/2021	5	SeqNo: 2	951658	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	41	9.3	46.25	0	87.9	39.3	155	11.9	23.4	
Surr: DNOP		3.7		4.625		79.7	70	130	0	0	
Sample ID: L	CS-64081	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	CSS	Batch	ID: 64	081	F	RunNo: 8	3061				
Prep Date:	11/22/2021	Analysis Da	ite: 1 '	1/23/2021	5	SeqNo: 2	951755	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	47	10	50.00	0	95.0	68.9	135			
Surr: DNOP		4.4		5.000		87.2	70	130			
Sample ID: M	IB-64081	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: P	BS	Batch	ID: 64	081	F	RunNo: 8	3061				
Prep Date:	11/22/2021	Analysis Da	ite: 1 1	1/23/2021	5	SeqNo: 2	951760	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	,	ND	10								
Motor Oil Range O	Organics (MRO)	ND	50								
Surr: DNOP		9.2		10.00		92.1	70	130			

Qualifiers:

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

2111923

30-Nov-21

WO#:

Client:	Vertex Re	esources Se	ervices	, Inc.							
Project:	Cooper A	AH 1 Row	7								
Sample ID:	mb-64025	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 64	025	F	RunNo: 8	3008				
Prep Date:	11/18/2021	Analysis D	ate: 1	1/19/2021	S	SeqNo: 2	947749	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		990		1000		99.2	70	130			
Sample ID:	mb-64033	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 64	033	F	RunNo: 8	3008				
Prep Date:	11/18/2021	Analysis D	ate: 1	1/19/2021	5	SeqNo: 2	947750	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	ND	5.0	1000		00.4	70	100			
Surr: BFB		920		1000		92.4	70	130			
Sample ID:	lcs-64025	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 64	025	F	RunNo: 8 :	3008				
Prep Date:	11/18/2021	Analysis D	ate: 1	1/19/2021	S	SeqNo: 2	947751	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		112	70	130			
Sample ID:	lcs-64033	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID: Client ID:			ype: LC			tCode: El RunNo: 8		8015D: Gaso	line Rang	e	
Client ID:			ID: 64	033	F		3008	8015D: Gaso Units: mg/K	C	e	
Client ID:	LCSS	Batch	ID: 64	033 1/19/2021	F	RunNo: 8	3008		C	e RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang	LCSS	Batch Analysis D Result 25	ID: 64 ate: 1	033 1/19/2021 SPK value 25.00	F S	RunNo: 8 : SeqNo: 2 : <u>%REC</u> 98.3	3008 947752 LowLimit 78.6	Units: mg/K HighLimit 131	g		Qual
Client ID: Prep Date: Analyte	LCSS 11/18/2021	Batch Analysis D Result	ID: 64 ate: 1 ′ PQL	033 1/19/2021 SPK value	F S SPK Ref Val	RunNo: 8 : SeqNo: 2 : %REC	3008 947752 LowLimit	Units: mg/K HighLimit	g		Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	LCSS 11/18/2021	Batch Analysis D Result 25	ate: 1 ⁴ ate: 1 ⁴ PQL 5.0	033 1/19/2021 SPK value 25.00 1000	F S SPK Ref Val 0	RunNo: 8 SeqNo: 2 %REC 98.3 109	3008 947752 LowLimit 78.6 70	Units: mg/K HighLimit 131	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	LCSS 11/18/2021 le Organics (GRO)	Batch Analysis D Result 25 1100 SampT	ate: 1 ⁴ ate: 1 ⁴ PQL 5.0	033 1/19/2021 SPK value 25.00 1000 S	F S SPK Ref Val 0 Tes	RunNo: 8 SeqNo: 2 %REC 98.3 109	3008 947752 LowLimit 78.6 70 PA Method	Units: mg/K HighLimit 131 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams	Batch Analysis D Result 25 1100 SampT	AlD: 64 ate: 1 ⁻¹ PQL 5.0 ype: M: ID: 64	033 1/19/2021 SPK value 25.00 1000 S 033	F S SPK Ref Val 0 Tes F	RunNo: 8 SeqNo: 29 %REC 98.3 109 tCode: El	3008 947752 LowLimit 78.6 70 PA Method 3008	Units: mg/K HighLimit 131 130	g %RPD line Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0'	Batch Analysis D Result 25 1100 SampT Batch	AlD: 64 ate: 1 ⁻¹ PQL 5.0 ype: M: ID: 64	033 1/19/2021 SPK value 25.00 1000 S 033 1/19/2021	F S SPK Ref Val 0 Tes F	RunNo: 8: SeqNo: 29 %REC 98.3 109 tCode: El RunNo: 8: SeqNo: 29	3008 947752 LowLimit 78.6 70 PA Method 3008 947754	Units: mg/K HighLimit 131 130 8015D: Gaso	g %RPD line Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0'	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33	PQL 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	033 1/19/2021 SPK value 25.00 1000 5 033 1/19/2021 SPK value 24.41	F SPK Ref Val 0 Tes F S	RunNo: 8: SeqNo: 29 <u>%REC</u> 98.3 109 tCode: El RunNo: 8: SeqNo: 29 <u>%REC</u> 136	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114	g %RPD line Rang	RPDLimit e	
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result	PQL PQL 5.0 PQL 5.0 PQL A ID: 64 PQL	033 1/19/2021 SPK value 25.00 1000 5 033 1/19/2021 SPK value	F SPK Ref Val 0 Tes F SPK Ref Val	RunNo: 8: SeqNo: 29 <u>%REC</u> 98.3 109 tCode: EI RunNo: 8: SeqNo: 29 %REC	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit	g %RPD line Rang	RPDLimit e	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33 1100	PQL 700 700 700 700 700 700 700 700 700 70	033 1/19/2021 SPK value 25.00 1000 5 033 1/19/2021 SPK value 24.41 976.6	F SPK Ref Val 0 Tes F SPK Ref Val 0	RunNo: 8: SeqNo: 29 %REC 98.3 109 tCode: El RunNo: 8: SeqNo: 29 %REC 136 112	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3 70	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114	g %RPD line Rang g %RPD	RPDLimit e RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021 e Organics (GRO)	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33 1100	PQL 700 700 700 700 700 700 700 700 700 70	033 1/19/2021 SPK value 25.00 1000 S 033 1/19/2021 SPK value 24.41 976.6 SD	F SPK Ref Val 0 Tes SPK Ref Val 0 Tes	RunNo: 8: SeqNo: 29 %REC 98.3 109 tCode: El RunNo: 8: SeqNo: 29 %REC 136 112	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3 70 PA Method	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114 130	g %RPD line Rang g %RPD	RPDLimit e RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021 e Organics (GRO) 2111923-001amsd	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33 1100	PQL 5.0 PQL 5.0 PQL 1D: 64 4.9 PQL 4.9 PQL 4.9	033 1/19/2021 SPK value 25.00 1000 S 033 1/19/2021 SPK value 24.41 976.6 SD 033	F SPK Ref Val 0 Tes SPK Ref Val 0 Tes F	RunNo: 8: SeqNo: 29 %REC 98.3 109 tCode: Ef RunNo: 8: SeqNo: 29 %REC 136 112 tCode: Ef	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3 70 PA Method 3008	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114 130	g %RPD line Rang %RPD line Rang	RPDLimit e RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021 e Organics (GRO) 2111923-001amsd BH21-01 0' 11/18/2021	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33 1100 I SampT Batch Analysis D Result	PQL 5.0 PQL 5.0 PQL 1D: 64 All PQL 4.9 PQL 1D: 64 All All 2QL	033 1/19/2021 SPK value 25.00 1000 5 033 1/19/2021 SPK value 24.41 976.6 5D 033 1/19/2021 SPK value	F SPK Ref Val 0 Tes SPK Ref Val 0 Tes F SPK Ref Val	RunNo: 8: SeqNo: 29 98.3 109 tCode: El RunNo: 8: SeqNo: 29 %REC 136 112 tCode: El RunNo: 8: SeqNo: 29 %REC	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3 70 PA Method 3008 947756 LowLimit	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114 130 8015D: Gaso Units: mg/K HighLimit	g %RPD line Rang %RPD line Rang	RPDLimit RPDLimit RPDLimit	Qual S Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	LCSS 11/18/2021 e Organics (GRO) 2111923-001ams BH21-01 0' 11/18/2021 e Organics (GRO) 2111923-001amsd BH21-01 0'	Batch Analysis D Result 25 1100 SampT Batch Analysis D Result 33 1100	ID: 64 ate: 1' PQL 5.0 ype: M3 ID: 64 ate: 1' PQL 4.9 ype: M3 ID: 64 ate: 1' 4.9 ype: M3 ID: 64 ate: 1'	033 1/19/2021 SPK value 25.00 1000 S 033 1/19/2021 SPK value 24.41 976.6 SD 033 1/19/2021	F SPK Ref Val 0 Tes SPK Ref Val 0 Tes F S	RunNo: 8: SeqNo: 29 98.3 109 tCode: El RunNo: 8: SeqNo: 29 %REC 136 112 tCode: El RunNo: 8: SeqNo: 29	3008 947752 LowLimit 78.6 70 PA Method 3008 947754 LowLimit 61.3 70 PA Method 3008 947756	Units: mg/K HighLimit 131 130 8015D: Gaso Units: mg/K HighLimit 114 130 8015D: Gaso Units: mg/K	g %RPD line Rang %RPD line Rang	RPDLimit e RPDLimit	Qual S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Е Value above quantitation range

J

Р Sample pH Not In Range

Reporting Limit RL

2111923

30-Nov-21

WO#:

Analyte detected below quantitation limits

	esources S AH 1 Rov		Inc.							
Sample ID: mb-64025	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 640	025	F	RunNo: 8	3008				
Prep Date: 11/18/2021	Analysis D	Date: 11	/19/2021	S	SeqNo: 2	947797	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			
Sample ID: mb-64033	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 640	033	F	RunNo: 8 :	3008				
Prep Date: 11/18/2021	Analysis D	Date: 11	/19/2021	S	SeqNo: 2	947798	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10	4 000		00.7	70	100			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	70	130			
Sample ID: Ics-64025	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: 640	025 RunNo: 83008							
Prep Date: 11/18/2021	Analysis D	Date: 11	/19/2021	S	SeqNo: 2	947799	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	70	130			
Sample ID: Ics-64033	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 640	033	F	RunNo: 8 :	3008				
Prep Date: 11/18/2021	Analysis D	Date: 11	/19/2021	S	SeqNo: 2	947800	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.5	70	130			
Sample ID: 2111923-002ams	SampT	уре: МS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH21-01 1'	Batch	h ID: 640	033	F	RunNo: 8 :	3008				
Prep Date: 11/18/2021	Analysis D	Date: 11	/19/2021	S	SeqNo: 2	947802	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9737	0	113	80	120			
Toluene	1.1	0.049	0.9737	0	115	80	120			
Ethylbenzene	1.2	0.049	0.9737	0	118	80	120			
Xylenes, Total	3.4	0.097	2.921	0	117	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

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

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

2111923

30-Nov-21

WO#:

	lesources S		Inc.							
Project: Cooper A	AAH 1 Rov	N								
Sample ID: 2111923-002ams	SampT	Гуре: М	6	Tes	Code: EF	PA Method	8021B: Volat	tiles		
Client ID: BH21-01 1'	Batc	h ID: 64	033	R	unNo: 8	3008				
Prep Date: 11/18/2021	Analysis E	Date: 11	/19/2021	S	eqNo: 2	947802	Units: mg/K	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		0.9737		90.9	70	130			
Sample ID: 2111923-002ams	d Samp1	Гуре: М \$	SD	Tes	Code: EF	PA Method	8021B: Volat	tiles		
Client ID: BH21-01 1'	Batc	h ID: 64	033	R	unNo: 8:	3008				
Prep Date: 11/18/2021	Analysis E	Date: 11	/20/2021	S	eqNo: 29	947804	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9699	0	123	80	120	7.49	20	S
Toluene	1.2	0.048	0.9699	0	124	80	120	7.41	20	S
Ethylbenzene	1.3	0.048	0.9699	0	130	80	120	9.02	20	S
Ethylbenzene Xylenes, Total		0.048 0.097	0.9699 2.910	0 0	130 128	80 80	120 120	9.02 8.56	20 20	S S

Qualifiers:

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

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2111923

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WO#:

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ANAL	RONMENTAL Ysis Pratory	TEL: 505-	onmental Analysis Labo. 4901 Hawki Albuquerque, NM 345-3975 FAX: 505-345 clients.hallenvironmenta	ns NE 87109 San -4107	nple Log-In Chec	k List
Client Name:	Vertex Resources Services, Inc.	Work Order	Number: 2111923		RcptNo: 1	
Received By:	Cheyenne Cason	11/18/2021 8:	45:00 AM	chul		
Completed By:	Sean Livingston	11/18/2021 10	:47:50 AM	Chent S-6	not	
Reviewed By:	The	11/10/21	15.04	\square		
Chain of Cus	stody		A	~	C.	
the state of the state	Custody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
3. Was an atten	npt made to cool the sam	ples?	Yes 🔽	No 🗌		
4. Were all sam	ples received at a tempera	ature of >0° C to 6.0°	C Yes 🗹	No 🗌		
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	nple volume for indicated t	est(s)?	Yes 🔽	No 🗌		
	(except VOA and ONG) pr		Yes 🗹	No 🗆		
	ative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
	mple containers received t		Yes	No 🗹 🛛		
1. Does paperwo	ork match bottle labels? ancies on chain of custody		Yes 🔽		# of preserved bottles checked for pH:	
	correctly identified on Cha		Yes 🗹	No 🗌	(<2 or >12 un Adjusted?	less noted)
	t analyses were requested		Yes 🔽			
4. Were all holding	ng times able to be met? ustomer for authorization.)		Yes 🗹		Checked by: Htt	W/G 11/18
	ing (if applicable)			/		
	tified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:		Date:			
By Who	om:	· · · · ·	/ia: 🗌 eMail 🔲 P	hone 🗌 Fax	In Person	
Regardi	ing:					
 Additional rer <u>Cooler Infon</u> Cooler No 	mation	Seal Intact Seal N	No Seal Date	Signed By		
4	0.9 Good	Sear made oddri	io Ocal Date	Signed by		

Page 1 of 1

Received by OCD: 8/30/2022 10:49:41 AM

Chain-of-Custody Record	Turn-Around Time:	S Dal	
Client: EOG / Vurtex	☑ ☑ Standard □ Rush		ANALYSTS I ARORATORY
C. SUHL Mailing Address:	Project Name: Coupur AAH #	ROW	4901 Hawkins NF - Albirinerative NM 87100
Phone #:	Project #: 216-03278		Fax 505-345-4107 Analysis Request
email or Fax#:	Project Manager:		()L
QA/QC Package:	Dennis Williams	s er	PO4, So SIMS SIMS
n: 🗆 Az Con	Sampler: MJ P		35200 35220 285 1
	On Ice: A Yes	□ No	(A() (A() (A() (A() (A()
pe)_	# of Coolers: (VC 103 110 110 110 110
	Cooler Temp(including CF): O (+020.9 (°C)	45D estic 14thc 9y 83 8 Me 8 Me 8 Me 8 Me 8 Me 8 Me
Date Time Matrix Sample Name	Container Preservative Type and # Type	HEAL No.	ВТЕХ ТРН:80 8081 Р ВО81 Р В206 (8260 (8270 (10tal C 10tal C 10tal C
11/16 8:45 Soil BHDI-01 O'			7
1 8:50 1 BH21-01 1'	1 1	200	
8:55 BHA1-01 2		603	
9:00 BH21-21 3.		Pool	
9:05 BH21-31 4.		005	
9.10 BHA1-02 O		000	
1 TO-ICHE 51.6		004	
		503	
60-		600	
		010	
9:35 BH21-03 O'		0(1	
1 9:40 1 BHA1-03 1'		0	
<u>г</u>	Received by: Via:		
Date: Time: Relinquished by:	Received by: Via:	Date Time	Nirect Bill FOG
M PROD	J	6	CC: MPropin
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this	ocontracted to other accredited laboratori	as. This serves as notice of this	possibility. Any sub-contracted data will be clearly notated on the analytical report

Chain-of-Custody Record		I urn-Around I		Day			H		N	ATR	HALL FNVTRONMENTAL	
EOG Nurter		Z Standard	d 🗆 Rush						LS/		ANALYSTS LABORATORY	
C. Suttle Mailing Address:		Project Name:	2	#I Row		WWW.hall	ww	www.hallenvironmental.com	enviror	menta	al.com	OCD: 8/3
Dhone #-		Project #: 0 E - O	03978			Tel. 50	505-345-3975	3975 Ar	- Albuquerque, NI Fax 505-345-	505-	Fax 505-345-4107	
email or Fax#:		Project Manad	ader:			4	-	ł		hav	t) S	
QA/QC Package:		Dunis	smoil livu .	ŚW		12.282.10	SMIS		05 '*Oc		nəzdA\	
1: D Az Con		Sampler:	dre			1.100.55			0 ⁵ I		lnese	
D NELAC D Other		On Ice:	A Yes	ON D			_	4	N '	(A	Pré	
EDD (Type)		# of Coolers:						slej		-) w	
		Cooler Temp(including CF):(C)	D(including CF):(0, ()	1-0=0.9 (°C)				ЭМ		100	lifor	
Time Matrix Sample Name		Container Type and #	Preservative Type	HEAL No.	(X31)	108:H91 99 1808	M) 803 (M sHA9	8 ARDR	в260 (Vi	9S) 0228	Total Co	
1:3	5	2047	221	013	~		-	4	1	1	Ĺ	
9:50 BH21-63	-	1		014					-			
9:55 BH21-03	1.		_	01 S								
10:00 BH21 - 24	ō			014								
10:05 BH31-04	. 1			410								
10-1CHQ 01:01	3.			510								
HQ-1048 S1:01	ī			019								
10:20 1 BH21 - DM	- 1-	_	-	070								
							-					
									_			
Time: Relinquished by: 11.00 Time: Relinquished hv:		Received by:	Via:	Date Time ^M n 21 100 Date Time	Remarks:		ちょう	-5	à.		bill Eag	Page 2
0					. J J		. 0.00			L	C	



December 07, 2021

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

OrderNo.: 2111C03

RE: Cooper AAH 1 Row

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/24/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111C03

Date Reported: 12/7/2021

CLIENT: EOG		Cli	ent Sample II): BS	21-01 0-4	
Project: Cooper AAH 1 Row		C	Collection Date	e: 11/	/23/2021 11:40:00 AN	1
Lab ID: 2111C03-001	Matrix: SOIL		Received Date	e: 11,	/24/2021 7:43:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	60	mg/Kg	20	12/1/2021 4:10:19 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/1/2021 6:20:17 AM	64176
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/1/2021 6:20:17 AM	64176
Surr: DNOP	86.5	70-130	%Rec	1	12/1/2021 6:20:17 AM	64176
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	II: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/29/2021 7:34:15 PM	64166
Surr: BFB	100	70-130	%Rec	1	11/29/2021 7:34:15 PM	64166
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	11/29/2021 7:34:15 PM	64166
Toluene	ND	0.047	mg/Kg	1	11/29/2021 7:34:15 PM	64166
Ethylbenzene	ND	0.047	mg/Kg	1	11/29/2021 7:34:15 PM	64166
Xylenes, Total	ND	0.093	mg/Kg	1	11/29/2021 7:34:15 PM	64166
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	11/29/2021 7:34:15 PM	64166

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

Qualifiers:

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

Page 1 of 12

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111C03

Date Reported: 12/7/2021

11/29/2021 7:57:49 PM 64166

CLIENT: EOG		Cl	ient Sample II	D: BS	521-02 0-4	
Project: Cooper AAH 1 Row			-		/23/2021 11:50:00 AM	1
Lab ID: 2111C03-002	Matrix: SOIL		Received Date	e: 11	/24/2021 7:43:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	t: MRA
Chloride	ND	60	mg/Kg	20	12/1/2021 4:22:40 PM	64243
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analyst	t: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/2/2021 4:21:51 AM	64215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/2/2021 4:21:51 AM	64215
Surr: DNOP	88.3	70-130	%Rec	1	12/2/2021 4:21:51 AM	64215
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/29/2021 7:57:49 PN	1 64166
Surr: BFB	100	70-130	%Rec	1	11/29/2021 7:57:49 PN	1 64166
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.024	mg/Kg	1	11/29/2021 7:57:49 PN	1 64166
Toluene	ND	0.047	mg/Kg	1	11/29/2021 7:57:49 PN	1 64166
Ethylbenzene	ND	0.047	mg/Kg	1	11/29/2021 7:57:49 PN	1 64166
Xylenes, Total	ND	0.095	mg/Kg	1	11/29/2021 7:57:49 PN	1 64166

98.3

70-130

%Rec 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- r Sample pH Not In RL Reporting Limit

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111C03

Date Reported: 12/7/2021

CLIENT: EOG		Cl	ient Sample II): BS	\$21-03 0-4	
Project: Cooper AAH 1 Row		(Collection Date	e:11	/23/2021 12:00:00 PM	
Lab ID: 2111C03-003	Matrix: SOIL		Received Date	e: 11	/24/2021 7:43:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	59	mg/Kg	20	12/1/2021 4:35:00 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/2/2021 4:32:20 AM	64215
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/2/2021 4:32:20 AM	64215
Surr: DNOP	101	70-130	%Rec	1	12/2/2021 4:32:20 AM	64215
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/29/2021 8:21:18 PM	64166
Surr: BFB	96.4	70-130	%Rec	1	11/29/2021 8:21:18 PM	64166
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	11/29/2021 8:21:18 PM	64166
Toluene	ND	0.048	mg/Kg	1	11/29/2021 8:21:18 PM	64166
Ethylbenzene	ND	0.048	mg/Kg	1	11/29/2021 8:21:18 PM	64166
Xylenes, Total	ND	0.096	mg/Kg	1	11/29/2021 8:21:18 PM	64166
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	11/29/2021 8:21:18 PM	64166

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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

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Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2111C03

11/29/2021 8:44:33 PM 64166

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/7/2021

CLIENT: E	EOG		Cl	ient Sample II	D: W	S21-01 0-4	
Project: C	Cooper AAH 1 Row		(Collection Dat	e: 11/	/23/2021 11:00:00 AM	
Lab ID: 2	111C03-004	Matrix: SOIL		Received Dat	e: 11,	/24/2021 7:43:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	OD 300.0: ANIONS					Analyst	MRA
Chloride		ND	60	mg/Kg	20	12/1/2021 4:47:21 PM	64243
EPA METH	OD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	SB
Diesel Rang	ge Organics (DRO)	ND	9.5	mg/Kg	1	12/2/2021 4:42:50 AM	64215
Motor Oil R	ange Organics (MRO)	ND	47	mg/Kg	1	12/2/2021 4:42:50 AM	64215
Surr: DN	OP	103	70-130	%Rec	1	12/2/2021 4:42:50 AM	64215
EPA METH	OD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Ra	ange Organics (GRO)	ND	4.8	mg/Kg	1	11/29/2021 8:44:33 PM	64166

70-130

0.024

0.048

0.048

0.095

70-130

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

101

ND

ND

ND

ND

100

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

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

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Cooper AAH 1 Row

2111C03-005

CLIENT: EOG

Project: Lab ID: Analytical Report
Lab Order 2111C03

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2111C03** Date Reported: **12/7/2021**

Client Sample ID: WS21-02 0-4
Collection Date: 11/23/2021 11:10:00 AM
Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	12/1/2021 4:59:41 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/2/2021 4:53:18 AM	64215
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/2/2021 4:53:18 AM	64215
Surr: DNOP	91.4	70-130	%Rec	1	12/2/2021 4:53:18 AM	64215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/30/2021 4:15:00 PM	64196
Surr: BFB	98.1	70-130	%Rec	1	11/30/2021 4:15:00 PM	64196
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	11/30/2021 4:15:00 PM	64196
Toluene	ND	0.047	mg/Kg	1	11/30/2021 4:15:00 PM	64196
Ethylbenzene	ND	0.047	mg/Kg	1	11/30/2021 4:15:00 PM	64196
Xylenes, Total	ND	0.093	mg/Kg	1	11/30/2021 4:15:00 PM	64196
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	11/30/2021 4:15:00 PM	64196

Matrix: SOIL

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

Qualifiers:

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

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Project: Cooper AAH 1 Row

CLIENT: EOG

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2111C03** Date Reported: **12/7/2021**

Client Sample ID: WS21-03 0-4
Collection Date: 11/23/2021 11:20:00 AM
D oppined Date: 11/24/2021 7:43:00 AM

Lab ID: 2111C03-006	Matrix	: SOIL		Received Dat	e: 11	/24/2021 7:43:00 AM	
Analyses]	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: AN	IONS					Analyst:	MRA
Chloride		ND	60	mg/Kg	20	12/1/2021 5:12:02 PM	64243
EPA METHOD 8015M/D:	DIESEL RANGE ORGAN	ICS				Analyst:	SB
Diesel Range Organics (DF	RO)	ND	9.8	mg/Kg	1	12/2/2021 5:03:47 AM	64215
Motor Oil Range Organics ((MRO)	ND	49	mg/Kg	1	12/2/2021 5:03:47 AM	64215
Surr: DNOP		83.9	70-130	%Rec	1	12/2/2021 5:03:47 AM	64215
EPA METHOD 8015D: GA	ASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/30/2021 4:38:30 PM	64196
Surr: BFB		99.9	70-130	%Rec	1	11/30/2021 4:38:30 PM	64196
EPA METHOD 8021B: VO	DLATILES					Analyst:	NSB
Benzene		ND	0.023	mg/Kg	1	11/30/2021 4:38:30 PM	64196
Toluene		ND	0.046	mg/Kg	1	11/30/2021 4:38:30 PM	64196
Ethylbenzene		ND	0.046	mg/Kg	1	11/30/2021 4:38:30 PM	64196
Xylenes, Total		ND	0.092	mg/Kg	1	11/30/2021 4:38:30 PM	64196
Surr: 4-Bromofluorobenz	ene	99.2	70-130	%Rec	1	11/30/2021 4:38:30 PM	64196

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

Qualifiers:

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

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Cooper AAH 1 Row

2111C03-007

CLIENT: EOG

Project: Lab ID: Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2111C03** Date Reported: **12/7/2021**

Client Sample ID: WS21-04 0-4
Collection Date: 11/23/2021 11:30:00 AM
Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	12/1/2021 5:24:23 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/2/2021 5:14:15 AM	64215
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/2/2021 5:14:15 AM	64215
Surr: DNOP	92.2	70-130	%Rec	1	12/2/2021 5:14:15 AM	64215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/30/2021 5:02:04 PM	64196
Surr: BFB	101	70-130	%Rec	1	11/30/2021 5:02:04 PM	64196
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	11/30/2021 5:02:04 PM	64196
Toluene	ND	0.046	mg/Kg	1	11/30/2021 5:02:04 PM	64196
Ethylbenzene	ND	0.046	mg/Kg	1	11/30/2021 5:02:04 PM	64196
Xylenes, Total	ND	0.093	mg/Kg	1	11/30/2021 5:02:04 PM	64196
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	11/30/2021 5:02:04 PM	64196

Matrix: SOIL

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

Qualifiers:

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

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Client: Project:	EOG Cooper	AAH 1 Row									
Sample ID:	MB-64243	SampTy	/pe: ml	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 64	243	F	RunNo: 8	3213				
Prep Date:	12/1/2021	Analysis Da	ate: 12	2/1/2021	5	SeqNo: 2	957107	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-64243	SampTy	/pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 64	243	F	RunNo: 8	3213				
Prep Date:	12/1/2021	Analysis Da	ate: 12	2/1/2021	5	SeqNo: 2	957108	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	91.8	90	110			

Qualifiers:

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

2111C03

07-Dec-21

WO#:

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WO#:	2111C03
	07-Dec-21

Client:EOGProject:Cooper	AAH 1 Row
Cooper	
Sample ID: LCS-64176	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64176 RunNo: 83165
Prep Date: 11/29/2021	Analysis Date: 12/1/2021 SeqNo: 2956172 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	41 10 50.00 0 82.9 68.9 135
Surr: DNOP	4.1 5.000 81.8 70 130
Sample ID: MB-64176	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 64176 RunNo: 83165
Prep Date: 11/29/2021	Analysis Date: 12/1/2021 SeqNo: 2956176 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10
Motor Oil Range Organics (MRO)	ND 50
Surr: DNOP	9.6 10.00 96.1 70 130
Sample ID: LCS-64215	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64215 RunNo: 83211
Prep Date: 11/30/2021	Analysis Date: 12/2/2021 SeqNo: 2956906 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	41 10 50.00 0 82.2 68.9 135
Surr: DNOP	3.9 5.000 78.4 70 130
Sample ID: LCS-64223	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64223 RunNo: 83211
Prep Date: 11/30/2021	Analysis Date: 12/1/2021 SeqNo: 2956907 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.000 83.7 70 130
Sample ID: LCS-64225	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64225 RunNo: 83211
Prep Date: 11/30/2021	Analysis Date: 12/1/2021 SeqNo: 2956908 Units: %Rec
-	
Analyte Surr: DNOP	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 4.5 5.000 89.3 70 130
	+.5 5.000 65.5 f0 150
Sample ID: LCS-64239	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64239 RunNo: 83211
Prep Date: 12/1/2021	Analysis Date: 12/1/2021 SeqNo: 2956909 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.8 5.000 76.0 70 130

Qualifiers:

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

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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WO#:	2111C03
	07-Dec-21

Client:EOGProject:Coope	r AAH 1 Row	
Sample ID: MB-64223	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 64223	RunNo: 83211
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956910 Units: %Rec
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	13 10.00	134 70 130 S
Sample ID: MB-64225	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 64225	RunNo: 83211
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956911 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	104 70 130
Sample ID: MB-64239	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 64239	RunNo: 83211
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2956912 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: MB-64215	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 64215	RunNo: 83242
Prep Date: 11/30/2021	Analysis Date: 12/2/2021	SeqNo: 2957749 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) Surr: DNOP	ND 50 12 10.00	124 70 130
	12 10.00	124 /0 150

Qualifiers:

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

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WO#:	2111C03
	07-Dec-21

	EOG Cooper AAH 1 R	Row								
Sample ID: mb-641	66 Sam	прТуре: М	BLK	Test	Code: EF	PA Method	8015D: Gaso	line Rang	9	
Client ID: PBS	Ba	atch ID: 64	166	R	unNo: 83	3144				
Prep Date: 11/24/2	2021 Analysi	s Date: 1	1/29/2021	S	eqNo: 29	953865	Units: mg/K	g		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics Surr: BFB	(GRO) ND 990		1000		98.9	70	130			
Sample ID: Ics-6416	56 Sam	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Ba	atch ID: 64	166	R	unNo: 83	3144				
Prep Date: 11/24/2	2021 Analysi	s Date: 1	1/29/2021	S	eqNo: 29	953866	Units: mg/K	g		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	· ,			0	89.1	78.6	131			
Surr: BFB	1100)	1000		111	70	130			
Sample ID: mb-6419	96 San	прТуре: М	BLK	Test	Code: EF	PA Method	8015D: Gaso	line Rang	9	
Client ID: PBS		atch ID: 64	196	R	unNo: 83	3185				
Client ID: PBS Prep Date: 11/29/2	Ba	atch ID: 64 s Date: 1			unNo: 8 3 eqNo: 2 9		Units: mg/K	g		
	Ba	s Date: 1	1/30/2021		eqNo: 29	955215	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 11/29/2	Ba 2021 Analysi Result	s Date: 1 t PQL	1/30/2021 SPK value	S	eqNo: 29	955215	-	-	RPDLimit	Qual
Prep Date: 11/29/2 Analyte	Ba 2021 Analysi Result	s Date: 1 t PQL 0 5.0	1/30/2021 SPK value	S	eqNo: 29	955215	-	-	RPDLimit	Qual
Prep Date: 11/29/2 Analyte Gasoline Range Organics	Ba 2021 Analysi Result (GRO) ND 970	s Date: 1 t PQL 0 5.0	1/30/2021 SPK value 1000	SPK Ref Val	eqNo: 29 %REC 97.3	955215 LowLimit 70	HighLimit	%RPD		Qual
Prep Date: 11/29/2 Analyte Gasoline Range Organics Surr: BFB	Ba 2021 Analysi Result (GRO) NC 970 206 Sam	s Date: 1 t PQL) 5.0	1/30/2021 SPK value 1000	SPK Ref Val	eqNo: 29 %REC 97.3	955215 LowLimit 70 PA Method	HighLimit 130	%RPD		Qual
Prep Date: 11/29/2 Analyte Gasoline Range Organics Surr: BFB Sample ID: Ics-6415	2021 Analysi Result (GRO) NE 970 96 Sam Ba	s Date: 1 t PQL) 5.0) npType: L(1/30/2021 SPK value 1000 CS 1996	SPK Ref Val Test	eqNo: 29 %REC 97.3	2955215 LowLimit 70 PA Method 3185	HighLimit 130	%RPD		Qual
Prep Date: 11/29/2 Analyte Gasoline Range Organics Surr: BFB Sample ID: Ics-6419 Client ID: LCSS	2021 Analysi Result (GRO) NE 970 96 Sam Ba	s Date: 1 t PQL) 5.0) mpType: L(atch ID: 64 s Date: 1	1/30/2021 SPK value 1000 CS 1/96 1/30/2021	SPK Ref Val Test	97.3 3000 - 29 97.3 3000 - 29 3000 - 29 3000 - 29 3000 - 29	2955215 LowLimit 70 PA Method 3185	HighLimit 130 8015D: Gaso	%RPD		Qual
Prep Date: 11/29/2 Analyte Gasoline Range Organics Surr: BFB Sample ID: Ics-6419 Client ID: LCSS Prep Date: 11/29/2	2021 Analysi Result (GRO) NE 970 96 Sam Ba 2021 Analysi Result	s Date: 1 t PQL 0 5.0 0 mpType: L(atch ID: 64 s Date: 1 t PQL 3 5.0	1/30/2021 SPK value 1000 CS 1996 1/30/2021 SPK value	S SPK Ref Val Test R S	97.3 3000 - 29 97.3 3000 - 29 3000 - 29 3000 - 29 3000 - 29	2955215 LowLimit 70 29A Method 3185 2955216	HighLimit 130 8015D: Gaso Units: mg/K	%RPD	e	

Qualifiers:

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

WO#:	2111C03
	07 D 11

07-Dec-21

Client:EOGProject:Cooper	r AAH 1 Rov	W								
Sample ID: mb-64166	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 64	166	F	RunNo: 8	3144				
Prep Date: 11/24/2021	Analysis [Date: 11	/29/2021	ç	SeqNo: 2	953909	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025	Of IX value		JUILO	LOWLINI	riigiiLiinii	70111 D		Quai
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			
Sample ID: LCS-64166	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 64	166	F	RunNo: 8 :	3144				
Prep Date: 11/24/2021	Analysis [Date: 11	/29/2021	5	SeqNo: 2	953910	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			
Sample ID: mb-64196	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 64	196	F	RunNo: 8 :	3185				
Prep Date: 11/29/2021	Analysis [Date: 11	/30/2021	S	SeqNo: 2	955257	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10	4 000				400			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			
Sample ID: LCS-64196	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 64	196	F	RunNo: 8	3185				
Prep Date: 11/29/2021	Analysis [Date: 11	/30/2021	S	SeqNo: 2	955258	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

HALL ENVIRONMENT ANALYSIS LABORATORY		Ha TE	ll Environme L: 505-345-2 Tebsite: clien	49 Albuquer 3975 FAX	01 Haw que, NN 505-34	kins NE 187109 15-4107	Sar	Page 27
Client Name: EOG		Work	Order Num	iber: 211	1C03			RcptNo: 1
Received By: Cheyenne	Cason	11/24/2	021 7:43:00	D AM		Chem	1	
Completed By: Isaiah Ort	iz	11/24/2	021 8:16:39	9 AM		I	20	2-1
Reviewed By: Jnu 2	4/21							
Chain of Custody								
1. Is Chain of Custody comp	lete?			Yes		No		Not Present
2. How was the sample deliv	ered?			Cou	rier			
Log In					-			
3. Was an attempt made to c	cool the sam	oles?		Yes		No		NA 🗌
4. Were all samples received	at a tempera	ature of >0° C	to 6.0°C	Yes		No		
5. Sample(s) in proper contai	iner(s)?			Yes		No		
6. Sufficient sample volume for	or indicated t	est(s)?		Yes	~	No		
7. Are samples (except VOA	and ONG) pr	operly preserve	ed?	Yes	~	No		
8. Was preservative added to	bottles?			Yes		No	•	NA 🗌
9. Received at least 1 vial with	h headspace	<1/4" for AQ \	/OA?	Yes		No		NA 🗹
10. Were any sample containe	ers received l	proken?		Yes		No		# of preserved bottles checked
11. Does paperwork match bot (Note discrepancies on cha		/)		Yes		No		for pH: (<2 or >12 unless noted)
12, Are matrices correctly iden	tified on Cha	in of Custody?		Yes	~	No		Adjusted?
3. Is it clear what analyses we	1997 - Carl Martin and Carl 1997	1?		Yes		No		
14. Were all holding times able (If no, notify customer for a)		Yes	\checkmark	No		Checked by: Conce 11/24/9
Special Handling (if app	licable)							
15. Was client notified of all di		with this order	2	Yes		No		
Person Notified:			Date	1			-	
By Whom:			Via:	🗌 eM	ail 🗌	Phone] Fax	🗌 In Person
Regarding: Client Instructions:						-	_	
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No Temp °C	Condition	Seal Intact	Seal No	Seel D	oto	Cierced	Dut	
1 3.1	Good	Not Present	Seal NO	Seal D	ate	Signed	Ву	
2 4.9	Good	Not Present		-				

Page 1 of 1

Chain-of-Custody Record 22lient: E O (1 / Vurtex) Page O (1 / Vurtex) Mailing Address: Mailing Address: Phone #: Image: QA/QC Package: Image: Image: Image: Accreditation: Image: Accreditation: Image:	Turn-Around Time: 50 Destandard Rush Project Name: Cooper AAH#1 Project #: Denn's Will'ams Sampler: MJP	urn-Around Time: 50 Pay 2Standard $\Box \text{ Rush}$ roject Name: Cooper AAH#I ROW roject #: 91E - 03278 roject Manager: roject Manager: Denn's Will'ams	TMB's (8021) / DRO / MRO) 082 PCB's .1) 8270SIMS	IO ₂ , PO ₄ , SO ₄ IO ₂ , PO ₄ , SO ₄ Analysis Re	IO ₂ , PO ₄ , SO ₄ Interview (SIS LABORATORY) Interview (SIS LABORATORY) I
□ Az Comp □ Other	Sampler: MJ P On Ice: DY Yes	□ No	RO / DR s/8082	or 827(5 , NO ₂ ,	Preser
EDD (Type)	olers:	N	GR	10 tals	m (
	Cooler Temp(Induding CF): 4, 4 - 0 =	יז: ע, א יס ב ע, א (°C) א א א א א א א א א א א א א א א א א א א	EX MTI	Hs by 83 RA 8 Me	al Colifor
11/23/11: 40 Soil RS21-01 0-4	HOZ ICC	0	Т <u>7</u> 8	P R C 8	
11:50	, I I	200	< 1	7	
H-0 60-1658 10:41		200	5	<	
11:00 WS21-01 0-4		hua	1	7	
11:10 WS21-02 0-4		50V	2	5	
11:20 WS21-03 0-4		900	27	5	
AM 11:30 WS21-04 0-4		100	< 5	7	
:49:41					
2022 10					
30//30//	-		-		
24	Weller by. Via:	"las al Indus	Remarks:	Vinut Bill E	EoG
Time: Relinquished by:	Received by: Via:	e			
100 anno	me cours	11124/20 0743	CC. MP.	uppin Final	Ruport
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other accredited la	boratories. This serves as notice of thi	is possibility. Any sub-cor	ntracted data will be clearly notate	d on the analytical report.

Released to Imaging: 2/24/2023 2:37:49 PM



December 22, 2021

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

OrderNo.: 2112853

RE: Cooper AHH 1 Battery

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 12/14/2021 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

Project: Lab ID: Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-001

Lab Order **2112853** Date Reported: **12/22/2021**

Client Sample ID: WS21-01 0-3
Collection Date: 12/10/2021 10:30:00 AM
Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 6:14:36 P	M 64644
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	st: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/16/2021 12:54:34 I	PM 64526
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/16/2021 12:54:34 H	PM 64526
Surr: DNOP	81.2	70-130	%Rec	1	12/16/2021 12:54:34	PM 64526
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 4:54:00 P	M 64500
Surr: BFB	84.1	70-130	%Rec	1	12/16/2021 4:54:00 P	M 64500
EPA METHOD 8021B: VOLATILES					Analys	st: mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 4:54:00 P	M 64500
Toluene	ND	0.049	mg/Kg	1	12/16/2021 4:54:00 P	M 64500
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 4:54:00 P	M 64500
Xylenes, Total	ND	0.098	mg/Kg	1	12/16/2021 4:54:00 P	M 64500
Surr: 4-Bromofluorobenzene	78.3	70-130	%Rec	1	12/16/2021 4:54:00 Pl	M 64500

Matrix: SOIL

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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 16

Project:

Lab ID:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-002

Lab Order **2112853** Date Reported: **12/22/2021**

Client Sample ID: WS21-02 0-3 Collection Date: 12/10/2021 10:40:00 AM Received Date: 12/14/2021 8:10:00 AM

Lub ID: 2112033 002	Mullin Soll		Iteerived Dut	c. 12	11/2021 0.10.00 / 101	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 6:27:01 PM	64644
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/16/2021 1:18:02 PM	64526
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/16/2021 1:18:02 PM	64526
Surr: DNOP	79.1	70-130	%Rec	1	12/16/2021 1:18:02 PM	64526
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 5:53:00 PM	64500
Surr: BFB	90.4	70-130	%Rec	1	12/16/2021 5:53:00 PM	64500
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 5:53:00 PM	64500
Toluene	ND	0.049	mg/Kg	1	12/16/2021 5:53:00 PM	64500
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 5:53:00 PM	64500
Xylenes, Total	ND	0.097	mg/Kg	1	12/16/2021 5:53:00 PM	64500
Surr: 4-Bromofluorobenzene	80.7	70-130	%Rec	1	12/16/2021 5:53:00 PM	64500

Matrix: SOIL

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

Qualifiers:

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

Page 2 of 16

Project:

Lab ID:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-003

Date Reported: 12/22/2021

Client Sample ID: WS21-03 0-3 Collection Date: 12/10/2021 10:50:00 AM Received Date: 12/14/2021 8:10:00 AM

	Soll		necci cu Dui		1 1/2021 0:10:00 1101	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 7:04:16 PN	1 64644
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst	t: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/17/2021 9:39:37 AN	1 64568
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/17/2021 9:39:37 AN	1 64568
Surr: DNOP	74.4	70-130	%Rec	1	12/17/2021 9:39:37 AN	1 64568
EPA METHOD 8015D: GASOLINE RANGE					Analyst	t: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 6:52:00 PN	1 64500
Surr: BFB	85.4	70-130	%Rec	1	12/16/2021 6:52:00 PM	1 64500
EPA METHOD 8021B: VOLATILES					Analyst	t: mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 6:52:00 PN	1 64500
Toluene	ND	0.049	mg/Kg	1	12/16/2021 6:52:00 PN	64500
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 6:52:00 PN	64500
Xylenes, Total	ND	0.099	mg/Kg	1	12/16/2021 6:52:00 PM	1 64500
Surr: 4-Bromofluorobenzene	75.9	70-130	%Rec	1	12/16/2021 6:52:00 PN	1 64500

Matrix: SOIL

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

Qualifiers:

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

Page 3 of 16

Project: Lab ID: Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-004

Lab Order 2112853 Date Reported: 12/22/2021

Client Sample ID: WS21-04 0-3
Collection Date: 12/10/2021 11:00:00 AM
Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bate
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	85	60	mg/Kg	20	12/20/2021 7:16:40 PM 6464
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/17/2021 11:17:35 AM 6456
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/17/2021 11:17:35 AM 6456
Surr: DNOP	80.3	70-130	%Rec	1	12/17/2021 11:17:35 AM 6456
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 7:11:00 PM 6450
Surr: BFB	86.4	70-130	%Rec	1	12/16/2021 7:11:00 PM 6450
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 7:11:00 PM 6450
Toluene	ND	0.049	mg/Kg	1	12/16/2021 7:11:00 PM 6450
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 7:11:00 PM 6450
Xylenes, Total	ND	0.098	mg/Kg	1	12/16/2021 7:11:00 PM 6450
Surr: 4-Bromofluorobenzene	79.3	70-130	%Rec	1	12/16/2021 7:11:00 PM 6450

Matrix: SOIL

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

Qualifiers:

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

Page 4 of 16

Project:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Date Reported: 12/22/2021

Client Sample ID: WS21-05 0-3 Collection Date: 12/10/2021 11:10:00 AM Received Date: 12/14/2021 8:10:00 AM

Lab ID: 2112853-005	Matrix: SOIL		Received Dat	e: 12	/14/2021 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	66	60	mg/Kg	20	12/20/2021 7:29:04 PI	M 64644
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/17/2021 11:40:57	AM 64568
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/17/2021 11:40:57	M 64568
Surr: DNOP	87.4	70-130	%Rec	1	12/17/2021 11:40:57 /	AM 64568
EPA METHOD 8015D: GASOLINE RANG	Ε				Analys	st: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/16/2021 7:31:00 PI	M 64500
Surr: BFB	86.1	70-130	%Rec	1	12/16/2021 7:31:00 PI	M 64500
EPA METHOD 8021B: VOLATILES					Analys	st: mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 7:31:00 PI	M 64500
Toluene	ND	0.050	mg/Kg	1	12/16/2021 7:31:00 PI	M 64500
Ethylbenzene	ND	0.050	mg/Kg	1	12/16/2021 7:31:00 PI	M 64500
Xylenes, Total	ND	0.099	mg/Kg	1	12/16/2021 7:31:00 PI	M 64500
Surr: 4-Bromofluorobenzene	79.7	70-130	%Rec	1	12/16/2021 7:31:00 PI	M 64500

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

Qualifiers:

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

Page 5 of 16

Project:

Lab ID:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-006

Date Reported: 12/22/2021

Client Sample ID: WS21-06 0-3 Collection Date: 12/10/2021 11:20:00 AM Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	ND	60	mg/Kg	20	12/20/2021 7:41:29 P	M 64644	
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analy	st: JME	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/17/2021 12:51:37	PM 64568	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/17/2021 12:51:37	PM 64568	
Surr: DNOP	102	70-130	%Rec	1	12/17/2021 12:51:37	PM 64568	
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: mb	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/16/2021 7:51:00 P	M 64500	
Surr: BFB	90.1	70-130	%Rec	1	12/16/2021 7:51:00 P	M 64500	
EPA METHOD 8021B: VOLATILES					Analy	st: mb	
Benzene	ND	0.024	mg/Kg	1	12/16/2021 7:51:00 P	M 64500	
Toluene	ND	0.047	mg/Kg	1	12/16/2021 7:51:00 P	M 64500	
Ethylbenzene	ND	0.047	mg/Kg	1	12/16/2021 7:51:00 P	M 64500	
Xylenes, Total	ND	0.095	mg/Kg	1	12/16/2021 7:51:00 P	M 64500	
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	12/16/2021 7:51:00 P	M 64500	

Matrix: SOIL

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

Qualifiers:

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

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Project:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Date Reported: 12/22/2021

Client Sample ID: WS21-07 0-3 Collection Date: 12/10/2021 11:30:00 AM Received Date: 12/14/2021 8:10:00 AM

Lab ID: 2112853-007	Matrix: SOIL	SOIL Received Date: 12/14/2021 8:10:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	12/20/2021 7:53:53 PN	64644
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/17/2021 1:15:14 PN	64568
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/17/2021 1:15:14 PN	64568
Surr: DNOP	85.1	70-130	%Rec	1	12/17/2021 1:15:14 PM	64568
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 8:10:00 PN	64500
Surr: BFB	90.8	70-130	%Rec	1	12/16/2021 8:10:00 PN	64500
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 8:10:00 PN	64500
Toluene	ND	0.049	mg/Kg	1	12/16/2021 8:10:00 PN	64500
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 8:10:00 PN	64500
Xylenes, Total	ND	0.098	mg/Kg	1	12/16/2021 8:10:00 PN	64500
Surr: 4-Bromofluorobenzene	81.0	70-130	%Rec	1	12/16/2021 8:10:00 PM	64500

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

Qualifiers:

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

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Project: Cooper AHH 1 Battery

CLIENT: EOG

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2112853** Date Reported: **12/22/2021**

Client Sample ID: WS21-08 0-3 Collection Date: 12/10/2021 11:40:00 AM

Lab ID: 2112853-008	Matrix: SOIL		Received Dat	e: 12	/14/2021 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 8:06:18 PM	64644
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/17/2021 1:38:54 PM	64568
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/17/2021 1:38:54 PM	64568
Surr: DNOP	97.1	70-130	%Rec	1	12/17/2021 1:38:54 PM	64568
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/16/2021 8:30:00 PM	64500
Surr: BFB	85.8	70-130	%Rec	1	12/16/2021 8:30:00 PM	64500
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 8:30:00 PM	64500
Toluene	ND	0.047	mg/Kg	1	12/16/2021 8:30:00 PM	64500
Ethylbenzene	ND	0.047	mg/Kg	1	12/16/2021 8:30:00 PM	64500
Xylenes, Total	ND	0.095	mg/Kg	1	12/16/2021 8:30:00 PM	64500
Surr: 4-Bromofluorobenzene	77.7	70-130	%Rec	1	12/16/2021 8:30:00 PM	64500

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

Qualifiers:

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

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Project:

Lab ID:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-009

Lab Order 2112853 Date Reported: 12/22/2021

Client Sample ID: WS21-09 0-3 Collection Date: 12/10/2021 11:50:00 AM Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	59	mg/Kg	20	12/20/2021 8:18:42 PM	1 64644
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/17/2021 2:02:37 PM	1 64568
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/17/2021 2:02:37 PM	64568
Surr: DNOP	70.2	70-130	%Rec	1	12/17/2021 2:02:37 PM	1 64568
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/16/2021 8:50:00 PM	1 64500
Surr: BFB	90.7	70-130	%Rec	1	12/16/2021 8:50:00 PM	1 64500
EPA METHOD 8021B: VOLATILES					Analys	t: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 8:50:00 PM	1 64500
Toluene	ND	0.048	mg/Kg	1	12/16/2021 8:50:00 PM	1 64500
Ethylbenzene	ND	0.048	mg/Kg	1	12/16/2021 8:50:00 PM	64500
Xylenes, Total	ND	0.096	mg/Kg	1	12/16/2021 8:50:00 PM	64500
Surr: 4-Bromofluorobenzene	80.2	70-130	%Rec	1	12/16/2021 8:50:00 PM	1 64500

Matrix: SOIL

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

Qualifiers:

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

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Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-010

Lab Order **2112853** Date Reported: **12/22/2021**

Client Sample ID: WS21-10 0-3 Collection Date: 12/10/2021 12:00:00 PM Received Date: 12/14/2021 8:10:00 AM

Lub ID: 2112035 010						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	99	60	mg/Kg	20	12/20/2021 8:31:07 PM	64644
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/17/2021 2:26:22 PM	64568
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/17/2021 2:26:22 PM	64568
Surr: DNOP	100	70-130	%Rec	1	12/17/2021 2:26:22 PM	64568
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/16/2021 9:09:00 PM	64500
Surr: BFB	87.4	70-130	%Rec	1	12/16/2021 9:09:00 PM	64500
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 9:09:00 PM	64500
Toluene	ND	0.050	mg/Kg	1	12/16/2021 9:09:00 PM	64500
Ethylbenzene	ND	0.050	mg/Kg	1	12/16/2021 9:09:00 PM	64500
Xylenes, Total	ND	0.099	mg/Kg	1	12/16/2021 9:09:00 PM	64500
Surr: 4-Bromofluorobenzene	79.3	70-130	%Rec	1	12/16/2021 9:09:00 PM	64500

Matrix: SOIL

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

Qualifiers:

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

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Project:

Lab ID:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112853-011

Date Reported: 12/22/2021

Client Sample ID: WS21-11 0-3 Collection Date: 12/10/2021 12:10:00 PM Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bate
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 8:43:31 PM 6464
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/20/2021 7:52:36 AM 6456
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/20/2021 7:52:36 AM 6456
Surr: DNOP	81.3	70-130	%Rec	1	12/20/2021 7:52:36 AM 6456
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/16/2021 10:08:00 PM 6450
Surr: BFB	93.2	70-130	%Rec	1	12/16/2021 10:08:00 PM 6450
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 10:08:00 PM 6450
Toluene	ND	0.047	mg/Kg	1	12/16/2021 10:08:00 PM 6450
Ethylbenzene	ND	0.047	mg/Kg	1	12/16/2021 10:08:00 PM 6450
Xylenes, Total	ND	0.094	mg/Kg	1	12/16/2021 10:08:00 PM 6450
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	12/16/2021 10:08:00 PM 6450

Matrix: SOIL

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

Qualifiers:

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

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Project:

Analytical Report Lab Order 2112853

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Date Reported: 12/22/2021

Client Sample ID: WS21-12 0-3 Collection Date: 12/10/2021 12:20:00 PM Received Date: 12/14/2021 8:10:00 AM

Lab ID: 2112853-012	Matrix: SOIL	/14/2021 8:10:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/20/2021 8:55:56 PM 64644
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/17/2021 3:13:47 PM 64568
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/17/2021 3:13:47 PM 64568
Surr: DNOP	118	70-130	%Rec	1	12/17/2021 3:13:47 PM 64568
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/16/2021 10:28:00 PM 64500
Surr: BFB	90.2	70-130	%Rec	1	12/16/2021 10:28:00 PM 64500
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 10:28:00 PM 64500
Toluene	ND	0.048	mg/Kg	1	12/16/2021 10:28:00 PM 64500
Ethylbenzene	ND	0.048	mg/Kg	1	12/16/2021 10:28:00 PM 64500
Xylenes, Total	ND	0.095	mg/Kg	1	12/16/2021 10:28:00 PM 64500
Surr: 4-Bromofluorobenzene	79.6	70-130	%Rec	1	12/16/2021 10:28:00 PM 64500

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

Qualifiers:

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

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14

1.5

15.00

Client:EOGProject:Coop	er AHH 1 Battery				
Sample ID: MB-64644	SampType: mblk	TestCode: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID: 64644	RunNo: 84672			
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977717	Units: mg/Kg		
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Q	ual
Sample ID: LCS-64644	SampType: Ics	TestCode: EPA Method	300.0: Anions		
Client ID: LCSS	Batch ID: 64644	RunNo: 84672			
Prep Date: 12/20/2021	Analysis Date: 12/20/2021	SeqNo: 2977718	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Q	ual

0

92.3

90

110

Qualifiers:

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

2112853

22-Dec-21

WO#:

QC SUMMARY REPORT Hall

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	WO#:	2112853
Environmental Analysis Laboratory, Inc.		22-Dec-21

Client: EOG									
Project: Cooper A	AHH 1 Battery								
Sample ID: MB-64526	SampType: N	IBLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 6	4526	R	unNo: 84	4564				
Prep Date: 12/15/2021	Analysis Date:	12/16/2021	S	eqNo: 29	973590	Units: mg/#	٤g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	0							
Motor Oil Range Organics (MRO)	ND 5	0							
Surr: DNOP	9.2	10.00		91.6	70	130			
Sample ID: LCS-64526	SampType: L	.CS	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 6	4526	R	unNo: 84	4564				
Prep Date: 12/15/2021	Analysis Date:	12/16/2021	S	eqNo: 29	973591	Units: mg/k	ζg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 1	0 50.00	0	93.7	68.9	135			
Surr: DNOP	4.4	5.000		87.6	70	130			
Sample ID: LCS-64568	SampType: L	.CS	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 6	4568	R	unNo: 84	4632				
Prep Date: 12/16/2021	Analysis Date:	12/17/2021	S	eqNo: 29	975392	Units: mg/k	ζg		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 1	0 50.00	0	88.4	68.9	135			
Surr: DNOP	4.4	5.000		87.8	70	130			
Sample ID: MB-64568	SampType: N	/IBLK	Tes	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 6	4568	R	unNo: 84	4632				
Prep Date: 12/16/2021	Analysis Date:	12/17/2021	S	eqNo: 29	975393	Units: mg/k	ζg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	0							
Motor Oil Range Organics (MRO)	ND 5								
Surr: DNOP	9.8	10.00		97.7	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 interference 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

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L						
Hall Env		22-Dec-21				
Client:	EOG					

Project: Cooper	AHH 1 Batt	tery								
Sample ID: mb-64500	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 64500			RunNo: 84604						
Prep Date: 12/14/2021	Analysis Date: 12/16/2021			SeqNo: 2973977			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 910	5.0	1000		90.8	70	130			
Sample ID: Ics-64500	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 64	500	RunNo: 84604						
Prep Date: 12/14/2021	Analysis Date: 12/16/2021			SeqNo: 2973979			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	78.6	131			
Surr: BFB	1100		1000		109	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 interference 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

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2112853	WO#:	
22-Dec-21		

Client: EOC Project: Coo	3 per AHH 1 Bat	ttery								
Sample ID: mb-64500	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 64	500	RunNo: 84604						
Prep Date: 12/14/2021	Analysis I	Date: 12	2/16/2021	S	SeqNo: 2	974025	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.78		1.000		78.2	70	130			
Sample ID: Ics-64500	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 64	500	F	RunNo: 8 4	4604				
Prep Date: 12/14/2021	Analysis [Date: 12	2/16/2021	S	SeqNo: 2	974027	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.87	0.050	1.000	0	87.3	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.8	80	120			
Kylenes, Total	2.5	0.10	3.000	0	84.4	80	120			
Surr: 4-Bromofluorobenzene	0.80		1.000		80.2	70	130			

Qualifiers:

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

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ANALYSIS LABORATORY	l Environmental Analysis Labora. 4901 Hawkins Albuquerque, NM 87 2: 505-345-3975 FAX: 505-345-4 ebsite: clients.hallenvironmental.	NE 109 Sar 107	nple Log-In Check List
Client Name: EOG Work	Order Number: 2112853		RcptNo: 1
Received By: Desiree Dominguez 12/14/2	021 8:10:00 AM	TAZ	
Completed By: Desiree Dominguez 12/14/2	021 9:58:18 AM	TPS	
Reviewed By: WRG 12/14/21			
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	Courier		
Log In 3. Was an attempt made to cool the samples?	Yes 🔽	No 🗌	
 Were all samples received at a temperature of >0° C 	o6.0°C Yes ☑	No 🗌	
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA and ONG) properly preserve	d? Yes 🗹	No 🗌	
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌
9. Received at least 1 vial with headspace <1/4" for AQ V	DA? Yes 🗌	No 🗌	NA 🔽
0. Were any sample containers received broken?	Yes 🗆	No 🔽	# of preserved
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌	
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by: gri2/14/2
pecial Handling (if applicable)			
15. Was client notified of all discrepancies with this order?	Yes 🗋	No 🗌	NA 🗹
Person Notified:	Date:		
By Whom:	Via: 🗌 eMail 🗌 Ph	one 🗌 Fax	In Person
Regarding:			
Client Instructions:			

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good				

 HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATORY ANALYSIS LABORATORY ANALYSIS LABORATORY ANALYSIS LABORATORY Tel. 505-345-3975 Fax 505-345-4107 Analysis Request 	BTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PDB (Method 504.1) EDB (Method 504.1)	X			Time: Relinquished by: Via: Date Time Remarks: Report Final Report Time: Relinquished by: Via: Date Time Date Time CC. M. PLOPIN Final Report 1900 Runshed by: Via: Date Time Date Time Date Time
Ind Time: 5 Day and _ Rush ane: AHH#1 Bothery er AHH#1 Bothery		106 -001	+00- 900- h02-	-009 -010 -011	Courier 12/14/21 8:10
Turn-Around Turn-Around Project Name	Project Manager: () () () () () () () () () ()	0-3 402	0.3	0-3 0-3 0-3 0-3	Received by
Chain-of-Custody Record : EOG/Vartex Chese Softle ig Address:	Az Compliance Other Matrix Sample Name	50-162M -01 60-1021-03	-162W		Relinquished by: Relinquished by:
Chone #:		14/010:30 01:01 10:50	11:00 11:10 11:30	13:30	Date: Time: Date: $12/3$ 7 19 00



December 27, 2021

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

OrderNo.: 2112930

RE: Cooper AHH 1 Battery

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 12/15/2021 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

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

12/16/2021 1:57:00 PM 64537

CLIENT: EOG		Cl	ient Sample I	D: W	S21-19 0-3'	
Project: Cooper AHH 1 Battery	Collection Date: 12/13/2021 9:30:00 AM					
Lab ID: 2112930-001	Matrix: SOIL		Received Dat	e: 12	/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 4:17:10 PM	64660
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/20/2021 2:29:14 PM	64569
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/20/2021 2:29:14 PM	64569
Surr: DNOP	105	70-130	%Rec	1	12/20/2021 2:29:14 PM	64569
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/16/2021 1:57:00 PM	64537
Surr: BFB	94.7	70-130	%Rec	1	12/16/2021 1:57:00 PM	64537
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 1:57:00 PM	64537
Toluene	ND	0.048	mg/Kg	1	12/16/2021 1:57:00 PM	64537
Ethylbenzene	ND	0.048	mg/Kg	1	12/16/2021 1:57:00 PM	64537
Xylenes, Total	ND	0.096	mg/Kg	1	12/16/2021 1:57:00 PM	64537

82.4

70-130

%Rec

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 interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 1 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG		Clie	ent Sample II): W:	\$21-20 0-3'	
Project: Cooper AHH 1 Battery		C	ollection Date	e: 12/	/13/2021 9:40:00 AM	
Lab ID: 2112930-002	Matrix: SOIL	1	Received Date	e: 12/	/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 4:54:23 PM	64660
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/20/2021 2:39:58 PM	64569
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	12/20/2021 2:39:58 PM	64569
Surr: DNOP	110	70-130	%Rec	1	12/20/2021 2:39:58 PM	64569
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 2:16:00 PM	64537
Surr: BFB	89.2	70-130	%Rec	1	12/16/2021 2:16:00 PM	64537
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 2:16:00 PM	64537
Toluene	ND	0.049	mg/Kg	1	12/16/2021 2:16:00 PM	64537
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 2:16:00 PM	64537
Xylenes, Total	ND	0.097	mg/Kg	1	12/16/2021 2:16:00 PM	64537
Surr: 4-Bromofluorobenzene	81.0	70-130	%Rec	1	12/16/2021 2:16:00 PM	64537

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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 Reporting Limit
- RL

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG		Cli	ent Sample II	D: W:	S21-21 0-3'	
Project: Cooper AHH 1 Battery		C	Collection Date	e: 12/	/13/2021 9:50:00 AM	
Lab ID: 2112930-003	Matrix: SOIL		Received Date	e: 12/	/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	70	60	mg/Kg	20	12/21/2021 5:06:49 PM	64660
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/20/2021 2:50:41 PM	64569
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/20/2021 2:50:41 PM	64569
Surr: DNOP	79.6	70-130	%Rec	1	12/20/2021 2:50:41 PM	64569
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 2:36:00 PM	64537
Surr: BFB	87.7	70-130	%Rec	1	12/16/2021 2:36:00 PM	64537
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.024	mg/Kg	1	12/16/2021 2:36:00 PM	64537
Toluene	ND	0.049	mg/Kg	1	12/16/2021 2:36:00 PM	64537
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 2:36:00 PM	64537
Xylenes, Total	ND	0.098	mg/Kg	1	12/16/2021 2:36:00 PM	64537
Surr: 4-Bromofluorobenzene	79.4	70-130	%Rec	1	12/16/2021 2:36:00 PM	64537

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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 Reporting Limit
- RL

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG		Cli	ient Sample II	D: BS	821-01 3'	
Project: Cooper AHH 1 Battery		(Collection Dat	e: 12/	/13/2021 2:00:00 PM	
Lab ID: 2112930-004	Matrix: SOIL		Received Dat	e: 12/	/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	120	60	mg/Kg	20	12/21/2021 5:19:14 PM	64660
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/20/2021 3:01:25 PM	64569
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2021 3:01:25 PM	64569
Surr: DNOP	90.6	70-130	%Rec	1	12/20/2021 3:01:25 PM	64569
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/16/2021 2:56:00 PM	64537
Surr: BFB	86.5	70-130	%Rec	1	12/16/2021 2:56:00 PM	64537
EPA METHOD 8021B: VOLATILES					Analyst	mb
Benzene	ND	0.025	mg/Kg	1	12/16/2021 2:56:00 PM	64537
Toluene	ND	0.049	mg/Kg	1	12/16/2021 2:56:00 PM	64537
Ethylbenzene	ND	0.049	mg/Kg	1	12/16/2021 2:56:00 PM	64537
Xylenes, Total	ND	0.098	mg/Kg	1	12/16/2021 2:56:00 PM	64537
Surr: 4-Bromofluorobenzene	78.6	70-130	%Rec	1	12/16/2021 2:56:00 PM	64537

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG		Clie	ent Sample II): BS	321-02 3'	
Project: Cooper AHH 1 Battery		С	ollection Date	e: 12/	/13/2021 2:10:00 PM	
Lab ID: 2112930-005	Matrix: SOIL]	Received Date	e: 12/	/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	110	60	mg/Kg	20	12/21/2021 6:21:17 PM	64676
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/20/2021 3:12:06 PM	64569
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/20/2021 3:12:06 PM	64569
Surr: DNOP	122	70-130	%Rec	1	12/20/2021 3:12:06 PM	64569
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst:	mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/17/2021 6:27:00 AM	64559
Surr: BFB	88.9	70-130	%Rec	1	12/17/2021 6:27:00 AM	64559
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.023	mg/Kg	1	12/17/2021 6:27:00 AM	64559
Toluene	ND	0.047	mg/Kg	1	12/17/2021 6:27:00 AM	64559
Ethylbenzene	ND	0.047	mg/Kg	1	12/17/2021 6:27:00 AM	64559
Xylenes, Total	ND	0.094	mg/Kg	1	12/17/2021 6:27:00 AM	64559
Surr: 4-Bromofluorobenzene	79.7	70-130	%Rec	1	12/17/2021 6:27:00 AM	64559

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG Project: Cooper AHH 1 Battery			ient Sample II Collection Dat		S21-03 3' /13/2021 2:20:00 PM	
Lab ID: 2112930-006	Matrix: SOIL				/15/2021 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 6:33:42 PM	64676
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	12/20/2021 3:22:47 PM	64569
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/20/2021 3:22:47 PM	64569
Surr: DNOP	116	70-130	%Rec	1	12/20/2021 3:22:47 PM	64569
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/17/2021 7:26:00 AM	64559
Surr: BFB	101	70-130	%Rec	1	12/17/2021 7:26:00 AM	64559
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.025	mg/Kg	1	12/17/2021 7:26:00 AM	64559
Toluene	ND	0.049	mg/Kg	1	12/17/2021 7:26:00 AM	64559
Ethylbenzene	ND	0.049	mg/Kg	1	12/17/2021 7:26:00 AM	64559
Xylenes, Total	ND	0.098	mg/Kg	1	12/17/2021 7:26:00 AM	64559
Surr: 4-Bromofluorobenzene	84.1	70-130	%Rec	1	12/17/2021 7:26:00 AM	64559

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG	Client Sample ID: BS21-04 3'						
Project: Cooper AHH 1 Battery		(Collection Dat	e: 12/13/2021 2:30:00 PM			
Lab ID: 2112930-007	Matrix: SOIL		Received Dat	e: 12	/15/2021 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: LRN	
Chloride	ND	61	mg/Kg	20	12/21/2021 6:46:07 PM	64676	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/20/2021 3:33:29 PM	64569	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/20/2021 3:33:29 PM	64569	
Surr: DNOP	99.7	70-130	%Rec	1	12/20/2021 3:33:29 PM	64569	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: mb	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/17/2021 8:25:00 AM	64559	
Surr: BFB	86.7	70-130	%Rec	1	12/17/2021 8:25:00 AM	64559	
EPA METHOD 8021B: VOLATILES					Analyst	: mb	
Benzene	ND	0.024	mg/Kg	1	12/17/2021 8:25:00 AM	64559	
Toluene	ND	0.047	mg/Kg	1	12/17/2021 8:25:00 AM	64559	
Ethylbenzene	ND	0.047	mg/Kg	1	12/17/2021 8:25:00 AM	64559	
Xylenes, Total	ND	0.094	mg/Kg	1	12/17/2021 8:25:00 AM	64559	
Surr: 4-Bromofluorobenzene	77.2	70-130	%Rec	1	12/17/2021 8:25:00 AM	64559	

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112930

Date Reported: 12/27/2021

CLIENT: EOG		Clie	ent Sample II	D: BS	321-05 3'						
Project: Cooper AHH 1 Battery		Collection Date: 12/13/2021 2:40:00 PM									
Lab ID: 2112930-008	Matrix: SOIL	L Received Date: 12/15/2021 8:00:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: LRN					
Chloride	ND	60	mg/Kg	20	12/21/2021 6:58:32 PN	64676					
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: JME					
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/20/2021 3:44:09 PN	64569					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/20/2021 3:44:09 PM	64569					
Surr: DNOP	121	70-130	%Rec	1	12/20/2021 3:44:09 PN	64569					
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	: mb					
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/17/2021 8:45:00 AN	64559					
Surr: BFB	88.5	70-130	%Rec	1	12/17/2021 8:45:00 AN	64559					
EPA METHOD 8021B: VOLATILES					Analyst	: mb					
Benzene	ND	0.024	mg/Kg	1	12/17/2021 8:45:00 AN	64559					
Toluene	ND	0.047	mg/Kg	1	12/17/2021 8:45:00 AN	64559					
Ethylbenzene	ND	0.047	mg/Kg	1	12/17/2021 8:45:00 AN	64559					
Xylenes, Total	ND	0.095	mg/Kg	1	12/17/2021 8:45:00 AN	64559					
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	12/17/2021 8:45:00 AN	64559					

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

Qualifiers:

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

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	WO#:	2112930
ory, Inc.		27-Dec-21

Client:	EOG							
Project:	Cooper	AHH 1 Battery						
Sample ID:	MB-64660	SampType: mblk	TestCode: EPA Method	TestCode: EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID: 64660	RunNo: 84699					
Prep Date:		Analysis Date: 12/21/2021	SeqNo: 2979707	Units: mg/Kg				
	12/21/2021		·					
Analyte			e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit C	Qual		
Chloride		ND 1.5						
Sample ID:	LCS-64660	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID:	LCSS	Batch ID: 64660	RunNo: 84699					
Prep Date:	12/21/2021	Analysis Date: 12/21/2021	SeqNo: 2979708	Units: mg/Kg				
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit C	Qual		
Chloride		14 1.5 15.00	0 91.7 90	110				
Sample ID:	MB-64676	SampType: mblk	TestCode: EPA Method	300.0: Anions				
Client ID:	PBS	Batch ID: 64676	RunNo: 84699					
Prep Date:	12/21/2021	Analysis Date: 12/21/2021	SeqNo: 2979737	Units: mg/Kg				
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit (Qual		
Chloride		ND 1.5						
r								
Sample ID:	LCS-64676	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Sample ID: Client ID:		SampType: Ics Batch ID: 64676	TestCode: EPA Method RunNo: 84699	300.0: Anions				
	LCSS			300.0: Anions Units: mg/Kg				
Client ID:	LCSS	Batch ID: 64676 Analysis Date: 12/21/2021	RunNo: 84699	Units: mg/Kg	RPDLimit (Qual		

Qualifiers:

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

Page 9 of 14

L.	onmental Analysis Laboratory, Inc.	WO#:	2112930 27-Dec-21
Client: Project:	EOG Cooper AHH 1 Battery		

Sample ID: MB-64569	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 64	569	F	RunNo: 8 4	4661				
Prep Date: 12/16/2021	Analysis D	ate: 12	2/20/2021	S	SeqNo: 2	976994	Units: mg/k	٤g		
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		88.5	70	130			
Sample ID: LCS-64569	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 64	569	F	RunNo: 8 4	4661				
Prep Date: 12/16/2021	Analysis D	ate: 12	2/20/2021	S	SeqNo: 2	976996	Units: mg/#	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	68.9	135			

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2112930	WO#:
27-Dec-21	

Client:	EOG										
Project:	Cooper A	HH 1 Batt	ery								
Sample ID: ml	o-64537	SampT	/pe: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PE	s	Batch	ID: 64	537	F	RunNo: 84604					
Prep Date: 1	2/15/2021	Analysis Da	ate: 12	2/16/2021	S	SeqNo: 29	973976	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Lowl imit	HighLimit	- %RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0			,011E0	LOWLINK	riigii			Quui
Surr: BFB		920		1000		91.6	70	130			
Sample ID: Ics	64537	SampType: LCS			Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: LC	SS	Batch ID: 64537			F	RunNo: 84	4604				
Prep Date: 1	2/15/2021	Analysis Da	ate: 12	2/16/2021	S	SeqNo: 29	973978	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB		1100		1000		108	70	130			
Sample ID: ml	b-64559	SampT	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: PE	BS	Batch	ID: 64	559	RunNo: 84642						
Prep Date: 1	2/16/2021	Analysis Da	ate: 12	2/17/2021	5	SeqNo: 29	975677	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	ND	5.0								
Surr: BFB		900		1000		89.9	70	130			
Sample ID: Ics	s-64559	SampT	/pe: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: LC	SS	Batch	ID: 64	559	F	RunNo: 84	4642				
Prep Date: 1	2/16/2021	Analysis Da	ate: 12	2/17/2021	S	SeqNo: 29	975679	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB		1000		1000		99.6	70	130			
Sample ID: ml	b-64595	SampT	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: PE	BS	Batch	ID: 64	595	F	RunNo: 8 4	4644				
Prep Date: 1	2/17/2021	Analysis Da	ate: 12	2/18/2021	S	SeqNo: 29	975896	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		96.3	70	130			
Sample ID: ml	b-64596	SampT	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID: PE		Batch	ID: 64	596	F	RunNo: 8 4	4644		-		
Prep Date: 1		Analysis Da				SeqNo: 29		Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		860		1000		85.7	70	130			

Qualifiers:

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

L.	Hall Environmental Analysis Laboratory, Inc.						
Client: Project:	EOG Cooper AHH 1 Battery						

Sample ID: Ics-64595	SampType: LCS	TestCode: E	PA Method	8015D: Gaso	ine Rang	e	
Client ID: LCSS	Batch ID: 64595	RunNo: 8	34644				
Prep Date: 12/17/2021	Analysis Date: 12/18/202	21 SeqNo: 2	2975898	Units: %Rec			
Analyte	Result PQL SPK	alue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200	119	70	130			
	1200	1000 119	10	100			
Sample ID: Ics-64596	SampType: LCS			8015D: Gaso	ine Rang	e	
			PA Method		ine Rang	e	
Sample ID: Ics-64596	SampType: LCS	TestCode: E RunNo: 8	PA Method 34644		U	e	
Sample ID: Ics-64596 Client ID: LCSS	SampType: LCS Batch ID: 64596 Analysis Date: 12/18/202	TestCode: E RunNo: 8	PA Method 34644 2975899	8015D: Gaso	U	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 interference 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

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Released to Imaging: 2/24/2023 2:37:49 PM

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2112930
	27 Dec 21

27-Dec-21

Client: EOG										
Project: Cooper A	AHH 1 Batte	ery								
Sample ID: mb-64537	SampTy	ne: MB		Tee	tCode: E	PA Method	8021B: Volat	ilos		
Client ID: PBS		ID: 645		TestCode: EPA Method 8021B: Volatiles						
					RunNo: 84604					
Prep Date: 12/15/2021	Analysis Da	ate: 12	/16/2021	č	SeqNo: 29	974024	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050 0.10								
Xylenes, Total Surr: 4-Bromofluorobenzene	ND 0.85	0.10	1.000		84.6	70	130			
	0.65		1.000		04.0	70	130			
Sample ID: Ics-64537	SampType: LCS			Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 645	537	F	RunNo: 84	4604				
Prep Date: 12/15/2021	Analysis Da	ate: 12	/16/2021	S	SeqNo: 29	974026	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	70	130			
Sample ID: mb-64559	SampTy	/pe: MB	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 645	559	F	RunNo: 84	4642				
Prep Date: 12/16/2021	Analysis Da	ate: 12	/17/2021	S	SeqNo: 29	975725	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.79		1.000		79.4	70	130			
Sample ID: Ics-64559	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 645	559	F	RunNo: 8 4	4642				
Prep Date: 12/16/2021	Analysis Da	ate: 12	/17/2021	S	SeqNo: 29	975727	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.2	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	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 interference S
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	306	of 602	
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WO#:	2112930
	07 D 01

27-Dec-21

Client: EOG				
Project: Cooper	r AHH 1 Battery			
Sample ID: mb-64595	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 64595	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975944	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.88 1.000	87.5 70	130	
Sample ID: mb-64596	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 64596	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975945	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.77 1.000	76.7 70	130	
Sample ID: Ics-64595	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 64595	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975946	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.97 1.000	96.9 70	130	
Sample ID: Ics-64596	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 64596	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975947	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.79 1.000	79.2 70	130	

Qualifiers:

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

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LABORAT	IMENTAL IS Tory		4901 Hawk Albuquerque, NM 3975 FAX: 505-345 hts.hallenvironmente	87109 Sar 5-4107	nple Log-In Cl	heck List
Client Name: EC	DG	Work Order Nun	nber: 2112930		RcptNo:	1
Received By: D	esiree Dominguez	12/15/2021 8:00:0	0 AM	TAR		
Completed By: D	esiree Dominguez	12/15/2021 9:31:0	5 AM	TA		
Reviewed By: D	AD 12/15/21			1-4		
Chain of Custod	<i>ly</i>					
1. Is Chain of Custo	ody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sam	nple delivered?		Courier			
Log In						
Was an attempt n	nade to cool the sample	\$?	Yes 🗹	No 🗌		
I. Were all samples	received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in prop	per container(s)?		Yes 🔽	No 🗌		
Sufficient sample	volume for indicated test	(s)?	Yes 🔽	No 🗌		
. Are samples (exce	ept VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
3. Was preservative	added to bottles?		Yes 🗌	No 🔽	NA 🗆	
. Received at least	1 vial with headspace <1	/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
), Were any sample	containers received bro	ken?	Yes 🗆	No 🗹	# of preserved	/
1. Does paperwork m (Note discrepancie	natch bottle labels? es on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >	12 unless noted
2. Are matrices corre	ectly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	alyses were requested?		Yes 🗹	No 🗌	/	
	mes able to be met? mer for authorization.)		Yes 🔽	No 🗌	Checked by: Cu	~ 12/15/.v
pecial Handling						
5. Was client notified	d of all discrepancies wit	n this order?	Yes	No 🗌	NA 🗹	
Person Noti	fied:	Date				
By Whom:		Via:	1	Phone 🗌 Fax	In Person	
Regarding:						
Client Instru	ctions:			_		
6. Additional remark	s:					
7. <u>Cooler Informati</u>	ion					
The second se	and the second	Seal Intact Seal No	Seal Date	Signed By		

AL			2:49:41 A1															toda 1	ge 308 of (
ENVIRONMENT	www.hallenvironmental.com	Albuquerque, NM 87109 Fax 505-345-4107 Ialysis Request	(fn92dA)		1.1		S. 6. 1. 2.											- UN	
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		Tel.	(ORM / C	1.244.9.10.		1.2.1.	or indicate			1.00					5	-	+	arks:	2
			(1208) 8	B'AMT \	BE /	ITM	BTEX	P	-	-	-	-	-	-	5			Remarks:	Ó
Day	AHH #1 Battery	8	ç	SN C	2	3-0.1=0.2 (°C)	2112-930	- 001	-002	-003	100-	-005	-006	100-	-008			Date Time	Date Time 12/14/21 8:00
	1.1	81850.	Project Manager: Monice Puppin	JJ P M Yes		ncluding CF): 0 .	Preservative Type	ice					-	_	-			Via:	Via: 1
Standard [Project Name:	Project #: 21E -	Project Manager:	Sampler: MJ P On Ice: M Yes	# of Coolers:	Cooler Temp(including CF): O	Container Type and #	70 h							-			Received by:	Received by:
cord			(alidation)					0-31	12-0	0-3'	3.	3.	3.	3	3			h	C
Chain-or-Custody Record			□ Level 4 (Full Validation)				Sample Name	61-18SM	08-185M	1 2-1 esm	10-1052	3521-02	80-1628	Bsal-04	BSD1-05			L.	id by:
02-01-01					1 1		Matrix	50:1	_						-			Relinquished by	Relinquished by:
F O H	Mailing Address:	#	email or Fax#: QA/QC Package: □ Standard	itation: AC	□ EDD (Type)		Time	13/139:30 56;	91.40	9:50	00;e	3:10	2:20	2:30	04:5			Time:	Time: 9 <i>u</i> 0
Client:	Mailing	Phone #:	email or Fax QA/QC Packa	Accreditation:			Date	Eller	-						-			Date:	Date: 2/H/M



December 27, 2021

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

OrderNo.: 2112A21

RE: Cooper AHH 1 Battery

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112A21 Date Reported: 12/27/2021

	0 0 /							
CLIENT: EOG		Cli	ent Sample II): BS	21-06 3'			
Project: Cooper AHH 1 Battery		Collection Date: 12/14/2021 9:15:00 AM						
Lab ID: 2112A21-001	Matrix: SOIL	Matrix: SOIL Received Date: 12/16/2021 7:52:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	LRN		
Chloride	65	60	mg/Kg	20	12/21/2021 8:50:15 PM	64676		
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst	JME		
Diesel Range Organics (DRO)	12	9.9	mg/Kg	1	12/20/2021 4:37:15 PM	64570		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2021 4:37:15 PM	64570		
Surr: DNOP	110	70-130	%Rec	1	12/20/2021 4:37:15 PM	64570		
EPA METHOD 8015D: GASOLIN	E RANGE				Analyst	: mb		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/17/2021 1:20:00 PM	64559		

Surr: BFB	89.4	70-130	%Rec	1	12/17/2021 1:20:00 PM 64559	
EPA METHOD 8021B: VOLATILES					Analyst: mb	
Benzene	ND	0.024	mg/Kg	1	12/17/2021 1:20:00 PM 64559	
Toluene	ND	0.047	mg/Kg	1	12/17/2021 1:20:00 PM 64559	
Ethylbenzene	ND	0.047	mg/Kg	1	12/17/2021 1:20:00 PM 64559	
Xylenes, Total	ND	0.094	mg/Kg	1	12/17/2021 1:20:00 PM 64559	
Surr: 4-Bromofluorobenzene	80.4	70-130	%Rec	1	12/17/2021 1:20:00 PM 64559	

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

Qualifiers:

EPA

- * 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
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112A21

Date Reported: 12/27/2021

CLIENT: EOG		Cl	ient Sample II	D: BS	521-07 3'			
Project: Cooper AHH 1 Battery	Collection Date: 12/14/2021 9:30:00 AM							
Lab ID: 2112A21-002	Matrix: SOIL		Received Dat	e: 12	/16/2021 7:52:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	LRN		
Chloride	ND	60	mg/Kg	20	12/21/2021 9:02:39 PM	64676		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME		
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	12/20/2021 4:47:54 PM	64570		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/20/2021 4:47:54 PM	64570		
Surr: DNOP	99.3	70-130	%Rec	1	12/20/2021 4:47:54 PM	64570		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	mb		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/17/2021 1:40:00 PM	64559		
Surr: BFB	89.7	70-130	%Rec	1	12/17/2021 1:40:00 PM	64559		
EPA METHOD 8021B: VOLATILES					Analyst:	mb		
Benzene	ND	0.024	mg/Kg	1	12/17/2021 1:40:00 PM	64559		
Toluene	ND	0.048	mg/Kg	1	12/17/2021 1:40:00 PM	64559		
Ethylbenzene	ND	0.048	mg/Kg	1	12/17/2021 1:40:00 PM	64559		
Xylenes, Total	ND	0.096	mg/Kg	1	12/17/2021 1:40:00 PM	64559		
Surr: 4-Bromofluorobenzene	79.9	70-130	%Rec	1	12/17/2021 1:40:00 PM	64559		

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112A21

Date Reported: 12/27/2021

CLIENT: EOG		Client Sample ID: BS21-08 3'							
Project: Cooper AHH 1 Battery	Collection Date: 12/14/2021 9:45:00 AM								
Lab ID: 2112A21-003	Matrix: SOIL		Received Dat	e: 12	/16/2021 7:52:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	LRN			
Chloride	ND	61	mg/Kg	20	12/21/2021 9:15:05 PM	64676			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/20/2021 4:58:37 PM	64570			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/20/2021 4:58:37 PM	64570			
Surr: DNOP	95.2	70-130	%Rec	1	12/20/2021 4:58:37 PM	64570			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	mb			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/17/2021 2:00:00 PM	64559			
Surr: BFB	86.6	70-130	%Rec	1	12/17/2021 2:00:00 PM	64559			
EPA METHOD 8021B: VOLATILES					Analyst:	mb			
Benzene	ND	0.024	mg/Kg	1	12/17/2021 2:00:00 PM	64559			
Toluene	ND	0.048	mg/Kg	1	12/17/2021 2:00:00 PM	64559			
Ethylbenzene	ND	0.048	mg/Kg	1	12/17/2021 2:00:00 PM	64559			
Xylenes, Total	ND	0.097	mg/Kg	1	12/17/2021 2:00:00 PM	64559			
Surr: 4-Bromofluorobenzene	77.2	70-130	%Rec	1	12/17/2021 2:00:00 PM	64559			

Refer to the QC Summary 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
- S % Recovery outside of range due to dilution or matrix interference
- 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

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Analytical Report Lab Order 2112A21

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2112A21** Date Reported: **12/27/2021**

CLIENT: EOG		Client Sample ID: BS21-13 3'							
Project: Cooper AHH 1 Battery		C	collection Date	e: 12	/14/2021 10:30:00 AM				
Lab ID: 2112A21-004	Matrix: SOIL	Matrix: SOIL Received Date: 12/16/2021 7:52:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	LRN			
Chloride	68	60	mg/Kg	20	12/21/2021 9:27:30 PM	64676			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst:	JME			
Diesel Range Organics (DRO)	16	9.6	mg/Kg	1	12/20/2021 5:09:17 PM	64570			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/20/2021 5:09:17 PM	64570			
Surr: DNOP	85.7	70-130	%Rec	1	12/20/2021 5:09:17 PM	64570			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	mb			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/17/2021 2:19:00 PM	64559			
Surr: BFB	88.4	70-130	%Rec	1	12/17/2021 2:19:00 PM	64559			
EPA METHOD 8021B: VOLATILES					Analyst:	mb			
Benzene	ND	0.025	mg/Kg	1	12/17/2021 2:19:00 PM	64559			
Toluene	ND	0.050	mg/Kg	1	12/17/2021 2:19:00 PM	64559			
Ethylbenzene	ND	0.050	mg/Kg	1	12/17/2021 2:19:00 PM	64559			

ND

78.0

0.10

70-130

mg/Kg

%Rec

1

1

12/17/2021 2:19:00 PM 64559

12/17/2021 2:19:00 PM 64559

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Analytical Report
Lab Order 2112A21

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2112A21** Date Reported: **12/27/2021**

CLIENT: EOG		Cli	ent Sample II	D: BS	321-12 3'			
Project: Cooper AHH 1 Battery	Collection Date: 12/14/2021 10:45:00 AM							
Lab ID: 2112A21-005	Matrix: SOIL		Received Date	e: 12/	/16/2021 7:52:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: LRN		
Chloride	ND	60	mg/Kg	20	12/21/2021 9:39:54 PM	1 64676		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: JME		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/20/2021 5:19:58 PM	1 64570		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/20/2021 5:19:58 PM	1 64570		
Surr: DNOP	97.3	70-130	%Rec	1	12/20/2021 5:19:58 PM	1 64570		
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: mb		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/17/2021 2:39:00 PM	1 64559		
Surr: BFB	86.6	70-130	%Rec	1	12/17/2021 2:39:00 PM	1 64559		
EPA METHOD 8021B: VOLATILES					Analys	t: mb		
Benzene	ND	0.025	mg/Kg	1	12/17/2021 2:39:00 PM	1 64559		
Toluene	ND	0.050	mg/Kg	1	12/17/2021 2:39:00 PM	1 64559		
Ethylbenzene	ND	0.050	mg/Kg	1	12/17/2021 2:39:00 PM	1 64559		
Xylenes, Total	ND	0.10	mg/Kg	1	12/17/2021 2:39:00 PM	1 64559		
Surr: 4-Bromofluorobenzene	78.7	70-130	%Rec	1	12/17/2021 2:39:00 PM	1 64559		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- P Sample pH Not In RL Reporting Limit
- Page 5 of 12

CLIENT: EOG

Project: Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2112A21-006

Lab Order 2112A21 Date Reported: 12/27/2021

Client Sample ID: WS21-13 0-3'
Collection Date: 12/14/2021 2:00:00 PM
Received Date: 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	120	59	mg/Kg	20	12/21/2021 9:52:18 PM	64676
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/20/2021 5:30:42 PM	64570
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/20/2021 5:30:42 PM	64570
Surr: DNOP	103	70-130	%Rec	1	12/20/2021 5:30:42 PM	64570
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/17/2021 2:59:00 PM	64559
Surr: BFB	85.3	70-130	%Rec	1	12/17/2021 2:59:00 PM	64559
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	12/17/2021 2:59:00 PM	64559
Toluene	ND	0.048	mg/Kg	1	12/17/2021 2:59:00 PM	64559
Ethylbenzene	ND	0.048	mg/Kg	1	12/17/2021 2:59:00 PM	64559
Xylenes, Total	ND	0.096	mg/Kg	1	12/17/2021 2:59:00 PM	64559
Surr: 4-Bromofluorobenzene	76.3	70-130	%Rec	1	12/17/2021 2:59:00 PM	64559

Matrix: SOIL

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

Qualifiers:

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

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Analytical Report
Lab Order 2112A21

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2112A21** Date Reported: **12/27/2021**

CLIENT:	EOG		Cli	ient Sample II	D: WS	\$21-14 0-3'	
Project:	Cooper AHH 1 Battery		(Collection Dat	e: 12/	/14/2021 2:15:00 PM	
Lab ID:	2112A21-007	Matrix: SOIL		Received Dat	e: 12/	/16/2021 7:52:00 AM	
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed Bat	tch
EPA ME	THOD 300.0: ANIONS					Analyst: LR	N
Chloride		130	60	mg/Kg	20	12/21/2021 10:04:42 PM 646	376
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JM	E
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	12/20/2021 5:41:26 PM 645	570
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	12/20/2021 5:41:26 PM 645	570
Surr:	DNOP	108	70-130	%Rec	1	12/20/2021 5:41:26 PM 645	570
EPA ME	THOD 8015D: GASOLINE RAI	NGE				Analyst: mb)
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	12/17/2021 3:18:00 PM 645	559
Surr:	BFB	85.7	70-130	%Rec	1	12/17/2021 3:18:00 PM 645	559
EPA ME	THOD 8021B: VOLATILES					Analyst: mb)
Benzene	9	ND	0.024	mg/Kg	1	12/17/2021 3:18:00 PM 645	559
Toluene		ND	0.048	mg/Kg	1	12/17/2021 3:18:00 PM 645	559
Ethylber	izene	ND	0.048	mg/Kg	1	12/17/2021 3:18:00 PM 645	559
Xylenes,	, Total	ND	0.095	mg/Kg	1	12/17/2021 3:18:00 PM 645	559
Surr:	4-Bromofluorobenzene	77.4	70-130	%Rec	1	12/17/2021 3:18:00 PM 645	559

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

Qualifiers:

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

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Qual

L.	Iall Environmental Analysis Laboratory, Inc.							WO#:	2112A21 27-Dec-21	
Client: Project:	EOG Cooper	· AHH 1 Battery								
Sample ID:	MB-64676	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch ID: 64	676	R	unNo: 8 4	4699				
Prep Date:	12/21/2021	Analysis Date: 1	2/21/2021	S	eqNo: 29	979737	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-64676	SampType: Ic:	6	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch ID: 64	676	R	unNo: 84	4699				
Prep Date:	12/21/2021	Analysis Date: 1	2/21/2021	S	eqNo: 29	979738	Units: mg/K	g		

%RPD RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Chloride 14 1.5 15.00 0 92.7 90 110

Qualifiers:

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

9.7

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Ucl Summan			ahanat	on Inc					WO#:	2112A21
Hall Environme	Ital Alla	ysis 1		ory, mc.						27-Dec-21
Client: EOG										
Project: Coope	er AHH 1 Bat	ttery								
Sample ID: MB-64570	Samp ⁻	Type: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 64	570	F	RunNo: 8	4661				
Prep Date: 12/17/2021	Analysis [Date: 12	2/20/2021	S	SeqNo: 2	976995	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

Sample ID: LCS-64570 SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	n ID: 64	570	R	RunNo: 8	4661				
Prep Date: 12/17/2021	Analysis D	ate: 12	2/20/2021	S	SeqNo: 2	976997	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	68.9	135			
Surr: DNOP	5.6		5.000		112	70	130			

10.00

97.5

70

130

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е 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#:	2112A21
	27-Dec-21

Client: EOG			
Project: Cooper	AHH 1 Battery		
Sample ID: mb-64559	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 64559	RunNo: 84642	
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975677	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	900 1000	89.9 70	130
Sample ID: Ics-64559	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 64559	RunNo: 84642	
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975679	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	27 5.0 25.00	0 106 78.6	131
Surr: BFB	1000 1000	99.6 70	130
Sample ID: mb-64595	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 64595	RunNo: 84644	
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975896	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	960 1000	96.3 70	130
Sample ID: mb-64596	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 64596	RunNo: 84644	
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975897	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	860 1000	85.7 70	130
Sample ID: Ics-64595	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 64595	RunNo: 84644	-
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975898	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	1200 1000	119 70	130
Sample ID: Ics-64596	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 64596	RunNo: 84644	-
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975899	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Qualifiers:

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

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

-

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2112A21
	27-Dec-21

Client: EOG Project: Cooper	r AHH 1 Battery			
· ·	·			
Sample ID: mb-64559	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 64559	RunNo: 84642		
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975725	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Benzene	ND 0.025			
Toluene	ND 0.050			
Ethylbenzene	ND 0.050			
Xylenes, Total	ND 0.10			
Surr: 4-Bromofluorobenzene	0.79 1.000	79.4 70	130	
Sample ID: Ics-64559	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 64559 RunNo: 84642			
Prep Date: 12/16/2021	Analysis Date: 12/17/2021	SeqNo: 2975727	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Benzene	0.91 0.025 1.000	0 90.7 80	120	
Toluene	0.89 0.050 1.000	0 88.9 80	120	
Ethylbenzene	0.88 0.050 1.000	0 88.4 80	120	
Xylenes, Total	2.6 0.10 3.000	0 86.2 80	120	
Surr: 4-Bromofluorobenzene	0.85 1.000	85.0 70	130	
Sample ID: mb-64595	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 64595	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975944	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.88 1.000	87.5 70	130	
Sample ID: mb-64596	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 64596	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975945	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.77 1.000	76.7 70	130	
Sample ID: Ics-64595	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 64595	RunNo: 84644		
Prep Date: 12/17/2021	Analysis Date: 12/18/2021	SeqNo: 2975946	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.97 1.000		130	

Qualifiers:

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

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

	EOG Cooper AHH 1 Βε	attery							
Sample ID: Ics-6459	96 Samp	Type: LCS	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bat	ch ID: 64596	F	RunNo: 8 4	4644				
Prep Date: 12/17/2	2021 Analysis	Date: 12/18/2021	Ş	SeqNo: 2	975947	Units: %Red	;		
Analyte	Result	PQL SPK valu	ie SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorober	nzene 0.79	1.00	00	79.2	70	130			

Qualifiers:

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

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2112A21

27-Dec-21

WO#:

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ENVIRONMENTAL ANALYSIS LABORATORY T	all Environmental Analysis Laba 4901 Hawk Albuquerque, NM EL: 505-345-3975 FAX: 505-34 Vebsite: clients.hallenvironment	sins NE 87109 Sa 5-4107	P Sample Log-In Check List					
Client Name: EOG Worl	k Order Number: 2112A21		RcptNo: 1					
Received By: Cheyenne Cason 12/16/2	2021 7:52:00 AM	Unil						
0	2021 8:59:56 AM	Chul						
Reviewed By: 12/16/21 MPG		DP3						
Chain of Custody								
1. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present					
2. How was the sample delivered?	Courier							
<u>Log In</u>								
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌						
4. Were all samples received at a temperature of $>0^{\circ}$ C	to 6.0°C Yes 🗹	No 🗌						
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌						
6. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌						
7. Are samples (except VOA and ONG) properly preserve								
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌					
9. Received at least 1 vial with headspace <1/4" for AQ V	OA? Yes	No 🗌	NA 🔽					
10. Were any sample containers received broken?	Yes 🗆	No 🔽						
			# of preserved bottles checked					
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🗹	No 🗌	for pH:					
2. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌	(<2 or >12 unless noted) Adjusted?					
3. Is it clear what analyses were requested?	Yes 🗹							
4. Were all holding times able to be met?	Yes 🗹	No 🗌	Checked by: JA 12/16/2					
(If no, notify customer for authorization.)		2	1					
Special Handling (if applicable)								
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹					
Person Notified:	Date:							
By Whom:	Via: 🗌 eMail 🗌 P	hone 🗌 Fax	In Person					
Regarding:								
Client Instructions:								
6. Additional remarks:								
Cooler Information Cooler No Temp °C Condition Seal Intact 1 1.7 Good	Seal No Seal Date	Signed By						

Received by	1.1	30/2021	. 10	:49:41 AN	1												Page	323 of 6 (
 Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 'awkins NE - Albuquerque, NM 87109 Tel. 05-345-3975 Fax 505-345-4107 Tel. 05-345-3975 Request 		1	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) 5270 (Semi-VOA) 70tal Coliform (Present/Absent)												arks: Dired bill EOG	1910 allessary samples submitted to Hall Fordinand to the Cran 12/16/21 6252 CC: M. Puppin S. ral Report		
				(1208) s			ТM			-			F		>		Remarks:	S
5 Day	AHH #1 Bodtury	8	>	Ç	ON C	2	8-6,1=1,7 (°C)	HEAL No.	- 001	600-	- 003	-004	-005	-0010	100-		8	uate lime
Time: 5		03378	5	Pupp	J P W Yes	8	ncluding CF): [,	Preservative Type	100	ł							Via:	CLAN 16
Turn-Around	Project Name	Project #:		Project Manager. Monice Peppin	Sampler: MJ P On Ice: M Yes	# of Coolers:	-	Container Type and #	402	1							Received by:	Cut Cu
ord				alidation)					3	31	31	31	3.	0-3'	0-3'		1	
Chain-of-Custody Record EOC/Vwhex				Level 4 (Full Validation)	npliance			Sample Name	010-109	BS2+07	8221-08	8521-13	BSal-12	W521-13	HI-IOSM			LULL
-of-Cu					 Az Compliance Other 			Matrix	1:08								Relinquished by:	UNULUUS Submitted to Hall
Chain-of ^{Client:} 돈이스	Mailing Address:	#	email or Fav#	QA/QC Package:	Accreditation:	□ EDD (Type)				9:30	9:45	10:30	54:01	0,00	SIC		Time: 1120	Is n 1900
Clien	Mailir	Phone #:	email	aava(Date	19/14	1	-				-		Date: Balic NS M	12/21



June 22, 2022

Monica Peppin EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Cooper AHH 1 Battery

OrderNo.: 2206780

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206780

Date Reported: 6/22/2022

CLIENT: EOG		Cli	ient Sample II): BS	522-01 17'					
Project: Cooper AHH 1 Battery	Collection Date: 6/13/2022 9:00:00 AM									
Lab ID: 2206780-001	Matrix: SOIL		Received Date	e: 6/2	15/2022 7:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: LRN				
Chloride	93	60	mg/Kg	20	6/18/2022 12:12:59 AM	68210				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/17/2022 3:26:00 PM	68180				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/17/2022 3:26:00 PM	68180				
Surr: DNOP	90.5	51.1-141	%Rec	1	6/17/2022 3:26:00 PM	68180				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	BRM				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/17/2022 12:51:34 AM	68153				
Surr: BFB	94.7	37.7-212	%Rec	1	6/17/2022 12:51:34 AM	68153				
EPA METHOD 8021B: VOLATILES					Analyst	BRM				
Benzene	ND	0.024	mg/Kg	1	6/17/2022 12:51:34 AM	68153				
Toluene	ND	0.048	mg/Kg	1	6/17/2022 12:51:34 AM	68153				
Ethylbenzene	ND	0.048	mg/Kg	1	6/17/2022 12:51:34 AM	68153				
Xylenes, Total	ND	0.096	mg/Kg	1	6/17/2022 12:51:34 AM	68153				
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	6/17/2022 12:51:34 AM	68153				

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

Qualifiers:

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

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

Page 1 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206780

Date Reported: 6/22/2022

CLIENT:	EOG		Cli	ent Sample II): BS	522-03 17'					
Project:	Cooper AHH 1 Battery		Collection Date: 6/13/2022 9:05:00 AM								
Lab ID:	2206780-002	Matrix: SOIL		Received Dat	e: 6/	15/2022 7:00:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	THOD 300.0: ANIONS					Analyst	: LRN				
Chloride		89	60	mg/Kg	20	6/18/2022 12:25:23 AM	68210				
EPA MET	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: ED				
Diesel Ra	ange Organics (DRO)	ND	14	mg/Kg	1	6/17/2022 3:36:59 PM	68180				
Motor Oil	Range Organics (MRO)	ND	46	mg/Kg	1	6/17/2022 3:36:59 PM	68180				
Surr: D	DNOP	82.3	51.1-141	%Rec	1	6/17/2022 3:36:59 PM	68180				
ΕΡΑ ΜΕΤ	THOD 8015D: GASOLINE RAM	IGE				Analyst	BRM				
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	6/17/2022 1:15:12 AM	68153				
Surr: E	3FB	96.7	37.7-212	%Rec	1	6/17/2022 1:15:12 AM	68153				
ΕΡΑ ΜΕΤ	THOD 8021B: VOLATILES					Analyst	BRM				
Benzene		ND	0.024	mg/Kg	1	6/17/2022 1:15:12 AM	68153				

ND

ND

ND

90.4

0.048

0.048

0.096

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

6/17/2022 1:15:12 AM

6/17/2022 1:15:12 AM

6/17/2022 1:15:12 AM

6/17/2022 1:15:12 AM

68153

68153

68153

68153

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206780-003

Lab Order 2206780

Date Reported: 6/22/2022

Client Sample ID: BS22-04 17' Collection Date: 6/13/2022 9:10:00 AM Received Date: 6/15/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	6/20/2022 12:59:05 PM	68210
EPA METHOD 8015M/D: DIESEL RANGE O	ORGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	6/17/2022 3:47:58 PM	68180
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	6/17/2022 3:47:58 PM	68180
Surr: DNOP	76.6	51.1-141	%Rec	1	6/17/2022 3:47:58 PM	68180
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/17/2022 1:38:49 AM	68153
Surr: BFB	95.7	37.7-212	%Rec	1	6/17/2022 1:38:49 AM	68153
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	6/17/2022 1:38:49 AM	68153
Toluene	ND	0.047	mg/Kg	1	6/17/2022 1:38:49 AM	68153
Ethylbenzene	ND	0.047	mg/Kg	1	6/17/2022 1:38:49 AM	68153
Xylenes, Total	ND	0.095	mg/Kg	1	6/17/2022 1:38:49 AM	68153
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	6/17/2022 1:38:49 AM	68153

Matrix: SOIL

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

* **Qualifiers:**

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

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Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206780-004

Lab Order 2206780

Date Reported: 6/22/2022

Client Sample ID: BS22-05 17'
Collection Date: 6/13/2022 9:15:00 AM
Received Date: 6/15/2022 7:00:00 AM
ACCEIVED DUC: 0/15/2022 1.00.00 1101

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	ND	60	mg/Kg	20	6/20/2022 7:07:51 PM	68240
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/20/2022 11:25:38 AM	68194
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/20/2022 11:25:38 AM	68194
Surr: DNOP	99.9	51.1-141	%Rec	1	6/20/2022 11:25:38 AM	68194
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/17/2022 12:19:00 PM	68178
Surr: BFB	92.7	37.7-212	%Rec	1	6/17/2022 12:19:00 PM	68178
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	6/17/2022 12:19:00 PM	68178
Toluene	ND	0.049	mg/Kg	1	6/17/2022 12:19:00 PM	68178
Ethylbenzene	ND	0.049	mg/Kg	1	6/17/2022 12:19:00 PM	68178
Xylenes, Total	ND	0.098	mg/Kg	1	6/17/2022 12:19:00 PM	68178
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	6/17/2022 12:19:00 PM	68178

Matrix: SOIL

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206780

Date Reported: 6/22/2022

LIENT: EOG Client Sample ID: BS22-06 17'									
Project: Cooper AHH 1 Battery		Col	Collection Date: 6/13/2022 9:25:00 AM						
Lab ID: 2206780-005	Matrix: SOIL	5/2022 7:00:00 AM							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: LRN			
Chloride	ND	60	mg/Kg	20	6/20/2022 7:20:15 PM	68240			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	ED			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/20/2022 11:57:31 AM	68194			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/20/2022 11:57:31 AM	68194			
Surr: DNOP	81.3	51.1-141	%Rec	1	6/20/2022 11:57:31 AM	68194			
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	BRM			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/17/2022 1:19:00 PM	68178			
Surr: BFB	89.1	37.7-212	%Rec	1	6/17/2022 1:19:00 PM	68178			
EPA METHOD 8021B: VOLATILES					Analyst	BRM			
Benzene	ND	0.024	mg/Kg	1	6/17/2022 1:19:00 PM	68178			
Toluene	ND	0.047	mg/Kg	1	6/17/2022 1:19:00 PM	68178			
Ethylbenzene	ND	0.047	mg/Kg	1	6/17/2022 1:19:00 PM	68178			

ND

87.0

0.094

70-130

mg/Kg

%Rec

1

1

6/17/2022 1:19:00 PM

6/17/2022 1:19:00 PM

68178

68178

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Project:

Lab ID:

Analytical Report Lab Order 2206780

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206780-006

Date Reported: 6/22/2022

Client Sample ID: BS22-07 17' Collection Date: 6/13/2022 9:30:00 AM Received Date: 6/15/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	ND	60	mg/Kg	20	6/20/2022 7:57:30 PM	68240
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/20/2022 12:08:11 PM	68194
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/20/2022 12:08:11 PM	68194
Surr: DNOP	123	51.1-141	%Rec	1	6/20/2022 12:08:11 PM	68194
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/17/2022 2:18:00 PM	68178
Surr: BFB	85.1	37.7-212	%Rec	1	6/17/2022 2:18:00 PM	68178
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	6/17/2022 2:18:00 PM	68178
Toluene	ND	0.050	mg/Kg	1	6/17/2022 2:18:00 PM	68178
Ethylbenzene	ND	0.050	mg/Kg	1	6/17/2022 2:18:00 PM	68178
Xylenes, Total	ND	0.099	mg/Kg	1	6/17/2022 2:18:00 PM	68178
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	1	6/17/2022 2:18:00 PM	68178

Matrix: SOIL

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

Qualifiers: * Va

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

Page 6 of 16

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206780

Date Reported: 6/22/2022

Client Sample ID: BS22-08 17'								
	(Collection Dat	e: 6/1	13/2022 9:40:00 AM				
Matrix: SOIL Received Date: 6/15/2022 7:00:00 AM								
Result	RL	Qual Units	DF	Date Analyzed	Batch			
				Analyst	: LRN			
ND	60	mg/Kg	20	6/20/2022 8:09:55 PM	68240			
ORGANICS				Analyst	: ED			
ND	15	mg/Kg	1	6/20/2022 12:18:51 PM	68194			
ND	49	mg/Kg	1	6/20/2022 12:18:51 PM	68194			
95.1	51.1-141	%Rec	1	6/20/2022 12:18:51 PM	68194			
E				Analyst	BRM			
ND	4.8	mg/Kg	1	6/17/2022 2:38:00 PM	68178			
90.1	37.7-212	%Rec	1	6/17/2022 2:38:00 PM	68178			
				Analyst	BRM			
ND	0.024	mg/Kg	1	6/17/2022 2:38:00 PM	68178			
ND	0.048	mg/Kg	1	6/17/2022 2:38:00 PM	68178			
	Result ND FORGANICS ND 95.1 FE ND 90.1 ND	ND 60 Result RL ND 60 CORGANICS 15 ND 15 ND 49 95.1 51.1-141 E ND 4.8 90.1 37.7-212 ND 0.024	Collection Dat Matrix: SOIL Received Dat Result RL Qual Units ND 60 mg/Kg CORGANICS MD 15 mg/Kg ND 15 mg/Kg 95.1 51.1-141 %Rec ND 4.8 mg/Kg 90.1 37.7-212 %Rec ND 0.024 mg/Kg	ND 60 mg/Kg 20 ND 60 mg/Kg 20 ORGANICS ND 15 mg/Kg 1 ND 49 mg/Kg 1 95.1 51.1-141 %Rec 1 ND 4.8 mg/Kg 1 90.1 37.7-212 %Rec 1 ND 0.024 mg/Kg 1 1 1 1	Collection Date: 6/13/2022 9:40:00 AM Matrix: SOIL Received Date: 6/15/2022 7:00:00 AM Result RL Qual Units DF Date Analyzed ND 60 mg/Kg 20 6/20/2022 8:09:55 PM E ORGANICS Analyst Analyst Analyst Analyst ND 15 mg/Kg 1 6/20/2022 12:18:51 PM 95.1 51.1-141 %Rec 1 6/20/2022 12:18:51 PM 95.1 51.1-141 %Rec 1 6/20/2022 12:18:51 PM 95.1 51.1-141 %Rec 1 6/20/2022 12:18:51 PM 90.1 37.7-212 %Rec 1 6/17/2022 2:38:00 PM 90.1 37.7-212 %Rec 1 6/17/2022 2:38:00 PM 90.1 0.024 mg/Kg 1 6/17/2022 2:38:00 PM			

ND

ND

88.0

0.048

0.096

70-130

mg/Kg

mg/Kg

%Rec

1

1

1

6/17/2022 2:38:00 PM

6/17/2022 2:38:00 PM

6/17/2022 2:38:00 PM

68178

68178

68178

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206780

Date Reported: 6/22/2022

6/17/2022 2:58:00 PM

6/17/2022 2:58:00 PM

68178

68178

CLIENT:	CLIENT: EOG Client Sample ID: BS22-09 17'										
Project:	Cooper AHH 1 Battery	Collection Date: 6/13/2022 9:45:00 AM									
Lab ID:	2206780-008	Matrix: SOIL	15/2022 7:00:00 AM								
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	LRN				
Chloride		ND	60	mg/Kg	20	6/20/2022 8:22:19 PM	68240				
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	ED				
Diesel Ra	ange Organics (DRO)	ND	14	mg/Kg	1	6/20/2022 12:29:33 PM	68194				
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	6/20/2022 12:29:33 PM	68194				
Surr: D	NOP	96.4	51.1-141	%Rec	1	6/20/2022 12:29:33 PM	68194				
EPA MET	HOD 8015D: GASOLINE RAN	GE				Analyst	BRM				
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	6/17/2022 2:58:00 PM	68178				
Surr: E	FB	87.5	37.7-212	%Rec	1	6/17/2022 2:58:00 PM	68178				
EPA MET	HOD 8021B: VOLATILES					Analyst	BRM				
Benzene		ND	0.024	mg/Kg	1	6/17/2022 2:58:00 PM	68178				
Toluene		ND	0.049	mg/Kg	1	6/17/2022 2:58:00 PM	68178				
Ethylbenz	zene	ND	0.049	mg/Kg	1	6/17/2022 2:58:00 PM	68178				

ND

88.2

0.098

70-130

mg/Kg

%Rec

1

1

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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1	WO#:	2206780	
Laboratory, Inc.		22-Jun-22	

Client:	EOG									
Project:	Cooper A	AHH 1 Battery								
Sample ID:	MB-68210	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 68	210	F	RunNo: 88	3864				
Prep Date:	6/17/2022	Analysis Date: 6	/17/2022	\$	SeqNo: 31	155156	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-68210	SampType: Ic	5	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 68	210	F	RunNo: 88	3864				
Prep Date:	6/17/2022	Analysis Date: 6	/17/2022	S	SeqNo: 31	155157	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	92.5	90	110			
Sample ID:	MB-68240	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 68	240	F	RunNo: 88	3887				
Prep Date:	6/20/2022	Analysis Date: 6	/20/2022	5	SeqNo: 31	156162	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-68240	SampType: Ic	6	Tes	tCode: EF	PA Method	300.0: Anions	i		
Client ID:	LCSS	Batch ID: 68	240	F	RunNo: 88	8887				
Client ID:	LUUU									
Prep Date:	6/20/2022	Analysis Date: 6	/20/2022	S	SeqNo: 31	156163	Units: mg/K	g		
				SPK Ref Val	·	156163 LowLimit	Units: mg/K g HighLimit	g %RPD	RPDLimit	Qual

Qualifiers:

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

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EOG

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:
Duciante

Project:	Соор	er AHH 1 Battery								
Sample ID:	LCS-68149	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch ID: 68	149	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	16/2022	S	SeqNo: 31	54161	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.9	5.000		97.6	51.1	141			
Sample ID:	MB-68149	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch ID: 68	149	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	16/2022	S	SeqNo: 31	54162	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12	10.00		119	51.1	141			
Sample ID:	LCS-68138	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch ID: 68	138	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	S	SeqNo: 31	54204	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.9	5.000		119	51.1	141			
Sample ID:	MB-68138	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch ID: 68	138	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	S	SeqNo: 31	54205	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.3	10.00		93.4	51.1	141			
Sample ID:	LCS-68146	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch ID: 68	146	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	5	SeqNo: 31	54228	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.8	5.000		117	51.1	141			
Sample ID:	MB-68146	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch ID: 68	146	F	RunNo: 88	3796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	S	SeqNo: 31	54229	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
7 that yes										

Qualifiers:

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

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2206780

22-Jun-22

WO#:

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-		Z REPORT al Analysis L		ry, Inc.					WO#:	220678 22-Jun-2
Client: Project:	EOG Cooper J	AHH 1 Battery								
Sample ID:	LCS-68180	SampType: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	180	F	RunNo: 8	8796				
Prep Date:	6/16/2022	Analysis Date: 6/	17/2022	S	SeqNo: 3	154438	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	Organics (DRO)	54 15	50.00	0	109	64.4	127			
Surr: DNOP		4.6	5.000		92.3	51.1	141			
Sample ID:	MB-68180	SampType: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch ID: 68	180	F	RunNo: 8	8796				
Prep Date:	6/16/2022	Analysis Date: 6/	17/2022	S	SeqNo: 3	154439	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	ND 15								
-	e Organics (MRO)	ND 50								
Surr: DNOP		7.7	10.00		77.0	51.1	141			
Sample ID:	LCS-68148	SampType: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	148	F	RunNo: 8	8796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	S	SeqNo: 3	154576	Units: %Rec	;		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5	5.000		89.5	51.1	141			
Sample ID:	MB-68148	SampType: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch ID: 68	148	F	lunNo: 8	8796				
Prep Date:	6/15/2022	Analysis Date: 6/	17/2022	S	SeqNo: 3	154577	Units: %Rec	;		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12	10.00		117	51.1	141		-	
Sample ID:	LCS-68194	SampType: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	194	F	lunNo: 8	8879		-	-	
Prep Date:	6/17/2022	Analysis Date: 6/	20/2022	S	SeqNo: 3	155751	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	49 15	50.00	0	97.6	64.4	127			
Surr: DNOP		4.2	5.000		84.3	51.1	141			
Sample ID:	MB-68194	SampType: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch ID: 68	194	F	lunNo: 8	8879				
Prep Date:	6/17/2022	Analysis Date: 6/	20/2022	S	SeqNo: 3	155753	Units: mg/K	g		
Analyte		Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 11 of 16

2206780

22-Jun-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:EOGProject:Coop	ber AHH 1 Batt	tery								
Sample ID: MB-68194	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batcl	n ID: 681	194	F	RunNo: 88	8879				
Prep Date: 6/17/2022	Analysis D	Date: 6/2	20/2022	5	SeqNo: 31	55753	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO) ND	50								
Surr: DNOP	8.5		10.00		84.7	51.1	141			

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#:	2206780
	22 Tun 22

22-Jun-22

Client: Project:	EOG Cooper A	AHH 1 Batter	у								
Sample ID:	lcs-68140	SampTyp	e: LC	S	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch II	D: 681	140		RunNo: 88			-		
Prep Date:	6/15/2022	Analysis Date	e: 6/	16/2022	S	SeqNo: 31	153136	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2000		1000		196	37.7	212	,		
Sample ID:	mb-68140	SampTyp	e: ME	BLK	Tes	tCode: EF	A Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch II	D: 681	140	F	RunNo: 88	3813				
Prep Date:	6/15/2022	Analysis Date	e: 6/	16/2022	5	SeqNo: 31	153137	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		910		1000		90.5	37.7	212			
Sample ID:	lcs-68153	SampTyp	e: LC	S	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch II	D: 681	153	F	RunNo: 88	3813				
Prep Date:	6/15/2022	Analysis Date	e: 6/	17/2022	5	SeqNo: 31	53160	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	22	5.0	25.00	0	87.5	72.3	137			
Surr: BFB		1900		1000		188	37.7	212			
Sample ID:	mb-68153	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch II	D: 681	153	F	RunNo: 88	3813				
Prep Date:	6/15/2022	Analysis Date	e: 6/	17/2022	S	SeqNo: 31	153161	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 970	5.0	1000		96.7	37.7	212			
Sample ID:	lcs-68110	SampTyp	e: LC	S	Tes	tCode: EF	A Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch II	D: 681	110	F	RunNo: 88	3814		-		
Prep Date:	6/14/2022	Analysis Date	e: 6/	16/2022	S	SeqNo: 31	53275	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2200		1000		217	37.7	212			S
Sample ID:	mb-68110	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch II	D: 68 1	110	F	RunNo: 88	3814				
Prep Date:	6/14/2022	Analysis Date	e: 6/	16/2022	S	SeqNo: 31	153276	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		990		1000		99.2	37.7	212			

Qualifiers:

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

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	WO#:	2206780
l Environmental Analysis Laboratory, Inc.		22-Jun-22

Client: EOG						
Project: Cooper	AHH 1 Battery					
Sample ID: Ics-68178	SampType: LCS	Tes	stCode: EPA Method	8015D: Gasoline Range)	
Client ID: LCSS	Batch ID: 68178	I	RunNo: 88850			
Prep Date: 6/16/2022	Analysis Date: 6/17/20	22	SeqNo: 3154731	Units: mg/Kg		
Analyte	Result PQL SPI	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00 0	87.7 72.3	137		
Surr: BFB	1900	1000	194 37.7	212		
Sample ID: mb-68178	SampType: MBLK	Tes	stCode: EPA Method	8015D: Gasoline Range)	
Client ID: PBS	Batch ID: 68178	I	RunNo: 88850			
Prep Date: 6/16/2022	Analysis Date: 6/17/20	22	SeqNo: 3154732	Units: mg/Kg		
Analyte	Result PQL SPI	K value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0					
Surr: BFB	910	1000	91.2 37.7	212		

Qualifiers:

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

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EOG

Client:

Project:

Benzene Toluene Ethylbenzene Xylenes, Total

Benzene Toluene Ethylbenzene Xylenes, Total

Prep Date:

Analyte

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Sample ID:	lcs-68140	SampT	ype: LC	s	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 681	40	F	RunNo: 88	813				
Prep Date:	6/15/2022	Analysis D	ate: 6/1	16/2022	S	SeqNo: 31	53182	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.91		1.000		91.2	70	130			
Sample ID:	mb-68140	SampT	уре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	PBS	Batch	n ID: 681	40	F	RunNo: 88	813				
Prep Date:	6/15/2022	Analysis D	ate: 6/1	16/2022	5	SeqNo: 31	53183	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.90		1.000		90.1	70	130			
Sample ID:	lcs-68153	SampT	ype: LC	S	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 681	53	F	RunNo: 88	813				
Prep Date:	6/15/2022	Analysis D	ate: 6/1	17/2022	S	SeqNo: 31	53206	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.025	1.000	0	86.2	80	120			
Toluene		0.88	0.050	1.000	0	87.7	80	120			
Ethylbenzene		0.87	0.050	1.000	0	87.4	80	120			
Xylenes, Total		2.6	0.10	3.000	0	86.3	80	120			
Surr: 4-Bron	nofluorobenzene	0.92		1.000		91.7	70	130			
Sample ID:	mb-68153	SampT	уре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	PBS	Batch	n ID: 681	53	F	RunNo: 88	813				
Prep Date:	6/15/2022	Analysis D	ate: 6/1	17/2022	5	SeqNo: 31	53207	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.90		1.000		90.4	70	130			
Sample ID:	LCS-68110	SampT	ype: LC	s	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 681	10	F	RunNo: 88	814				

|--|

6/14/2022

Analysis Date: 6/16/2022

PQL

Result

0.95

Qualifiers:

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

SeqNo: 3153313

LowLimit

70

%REC

94.8

Units: %Rec

HighLimit

130

%RPD

Е Estimated value

SPK value SPK Ref Val

1.000

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

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RPDLimit

Qual

WO#: 2206780

22-Jun-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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2206780	WO#:
22-Jun-22	

Client: Project:	EOG Cooper	AHH 1 Batt	tory								
I I Ujeci.	Cooper A		tel y								
Sample ID:	mb-68110	SampT	Гуре: МВ	BLK	Tes	stCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batcl	h ID: 681	10	F	RunNo: 88	3814				
Prep Date:	6/14/2022	Analysis E	Date: 6/1	16/2022	S	SeqNo: 31	153314	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	nofluorobenzene	0.96		1.000	0	96.3	70	130	, or at 2		
Sample ID:	lcs-68178	SampT	Type: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batcl	h ID: 681	78	F	RunNo: 88	3850				
Prep Date:	6/16/2022	Analysis E	Date: 6/*	17/2022	ç	SeqNo: 31	154783	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	91.9	80	120	70111 D		Quai
Toluene		0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene		0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total		2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bron	nofluorobenzene	0.91		1.000		90.8	70	130			
Sample ID:	mb-68178	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batcl	h ID: 681	78	F	RunNo: 88	3850				
Prep Date:	6/16/2022	Analysis E	Date: 6/1	17/2022	S	SeqNo: 31	154784	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.89		1.000		88.5	70	130			

Qualifiers:

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

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ANALYSIS LABORATORY	Hall Environmen A TEL: 505-345-39 Website: www.	49 Ibuquer 75 FAX:	01 Hawk que, NM 505-345	ins NE 87109 5-4107	Sar	nple Log-In (Check List	
Client Name: EOG	Work Order Numb	er: 220	6780			RcptNc	p: 1	
Received By: Juan Rojas	6/15/2022 7:00:00 A	м		Guan	ang)			
Completed By: Tracy Casarrubias	6/15/2022 8:10:40 A	м						
Reviewed By: Su clish	•							
Chain of Custody								
 Is Chain of Custody complete? 		Yes		No		Not Present		
2. How was the sample delivered?		<u>Cou</u>	rier					
Log In 3. Was an attempt made to cool the sample	\$7	Yes		No				
		105		NO				
 Were all samples received at a temperatu 	re of >0° C to 6.0°C	Yes		No				
5. Sample(s) in proper container(s)?		Yes		No				
S. Sufficient sample volume for indicated test	(s)?	Yes		No				
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes		No				
3. Was preservative added to bottles?		Yes		No		NA 🗌		
). Received at least 1 vial with headspace <1	/4" for AQ VOA?	Yes		No				
0. Were any sample containers received bro		Yes		No				1
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		# of preserved bottles checked for pH: (<2 or	>12 unless noted)	
Are matrices correctly identified on Chain of	of Custody?	Yes		No		Adjusted2	//// L////////////////////////////////	
}. Is it clear what analyses were requested?		Yes		No			t. 100 1	
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	v	No		Checked by:	KPG b	-15
pecial Handling (if applicable)								
5. Was client notified of all discrepancies wit	n this order?	Yes		No		NA 🔽		
Person Notified:	Date:			_	_			
By Whom:	Via:	🗌 eMa	uil 🗌 F	Phone	Fax	In Person		
Regarding:			_					
Client Instructions:		_						
Additional remarks:								
7. <u>Cooler Information</u> Cooler No Temp ^o C Condition	Seal Intact Seal No	Seal Da	ite	Signed B	Sy			
1 0.3 Good Y	es							

Page 1 of 1

Client:	EOG	200	EDG	5	- Z Standard	くつつ - C - C - C - C - C - C - C - C - C -	Uay 1			I <	IALL	NEN Y		HALL ENVIRONMENTAL	ENTAI	
Mailing	Chase Settle Mailing Address:	Settl			Project Name.	П	Battery	1	1001	(www.he	allenvira	onmer	www.hallenvironmental.com	AIOK	100
					Project #:			-	Tol F	Hawki	Tel 505 345 3075	4	duerqi	Albuquerque, NM 87109	თ	5014
Phone #:	#:				100-32E	0123-04				+C-COC	1 100-0	Anal	is Red	ysis Request		
email c	email or Fax#:				Project Manag	ager:		-	(0		-	⁺C	-	()		0.4
QA/QC Packa	QA/QC Package:		Level 4 (Full Validation)	/alidation)	Monica	Peppin		1208) s'	PCB's O / MRC		SWIS	PO₄, S(nəsdA\t		9:41 AN
Accred	Accreditation:	D Az C	Az Compliance		Sampler:			1.10		(1.	0228	0 ^{5'}		uəse		
	D NELAC	□ Other	_		On Ice:	A Yes	ON D		1.11	709	_	Ν'	(40	1.0		
	(Type)				# of Coolers:	: 1				g po	_		1.17			-
					Cooler Tem	Cooler Temp(including CF): 0.3	().) 5:0-0-(TM		letho	_			2,003		-
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL NO.	BTEX)	08:H9T 9 1808	N) 803	PAHs b		S) 0728 V) 0928			
6/13	9:00	56:1	10-2228	, t1	402	ice	100	1.1.1			1000		-			-
-	9:05	-	8522-03	, 11		-	002	-	-			-				-
	9:10		8522-04	, t I			003									-
	9:15		8522-05	17.			004						-			-
	9:25		8522-06	.4			200					_				-
-	9:30		8522-07	121			nov		-			-	14			-
	9:40		822-08	17.			too	-				-				
-	sh:b		B522-09	.+1	_	_	00 Å									
																- 1
Date: UN172 Date:	and the second se	Relinquished by:	ed by: the Wing ed by:		Received by: Received by:	via: WULTP Via: TP	Date Time Inter (DAD Date Time	Remarks:	rtks:	10		M. Peppin	600	2		Page 34.
22/ML	14/22 1900	CIN	1900 CAMMAN X AA COUMER ENSTRY 7:00 Direct hill EDG		114	rounder 1	DOJE 22/5/7		Direct.	- + ,	1.6	EUG				<i>: 0</i> ј (

Released to Imaging: 2/24/2023 2:37:49 PM



June 27, 2022

Monica Peppin EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Cooper AHH 1 Battery

OrderNo.: 2206940

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Lab ID: Analytical Report Lab Order 2206940

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206940-001

Date Reported: 6/27/2022

Client Sample ID: BS22-02 17'
Collection Date: 6/14/2022 10:50:00 AM
Received Date: 6/17/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	110	60	mg/Kg	20	6/22/2022 4:23:08 PM	68287
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/21/2022 3:54:15 PM	68231
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/21/2022 3:54:15 PM	68231
Surr: DNOP	88.7	51.1-141	%Rec	1	6/21/2022 3:54:15 PM	68231
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/20/2022 11:56:33 PM	68217
Surr: BFB	93.9	37.7-212	%Rec	1	6/20/2022 11:56:33 PM	68217
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	6/20/2022 11:56:33 PM	68217
Toluene	ND	0.050	mg/Kg	1	6/20/2022 11:56:33 PM	68217
Ethylbenzene	ND	0.050	mg/Kg	1	6/20/2022 11:56:33 PM	68217
Xylenes, Total	ND	0.10	mg/Kg	1	6/20/2022 11:56:33 PM	68217
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	6/20/2022 11:56:33 PM	68217

Matrix: SOIL

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

Qualifiers: *

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

Page 1 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206940

Date Reported: 6/27/2022

6/21/2022 12:20:05 AM 68217

6/21/2022 12:20:05 AM 68217

6/21/2022 12:20:05 AM 68217

	Cli	ient Sample II): BS	\$22-10 17'	
		-			
Matrix: SOIL		Received Date	e: 6/1	17/2022 7:00:00 AM	
Result	RL	Qual Units	DF	Date Analyzed	Batch
				Analyst	: LRN
240	60	mg/Kg	20	6/22/2022 5:00:21 PM	68287
ORGANICS				Analyst	: JME
ND	15	mg/Kg	1	6/21/2022 4:08:32 PM	68231
ND	50	mg/Kg	1	6/21/2022 4:08:32 PM	68231
81.7	51.1-141	%Rec	1	6/21/2022 4:08:32 PM	68231
E				Analyst	: NSB
ND	4.9	mg/Kg	1	6/21/2022 12:20:05 AM	68217
93.6	37.7-212	%Rec	1	6/21/2022 12:20:05 AM	68217
				Analyst	: NSB
ND	0.024	mg/Kg	1	6/21/2022 12:20:05 AM	68217
ND	0.049	mg/Kg	1	6/21/2022 12:20:05 AM	68217
	Result 240 ORGANICS ND 81.7 E ND 93.6 ND	Matrix: SOIL Result RL Result RL 240 60 ORGANICS 15 ND 15 ND 50 81.7 51.1-141 ND 4.9 93.6 37.7-212 ND 0.024	Collection DataMatrix: SOILReceived DataResultRLQualUnits24060mg/Kg0RGANICS0mg/KgND15mg/KgND50mg/Kg81.751.1-141%Rec93.637.7-212%RecND0.024mg/Kg	Collection Date: 6/1 Matrix: SOIL Received Date: 6/1 Result RL Qual Units DF 240 60 mg/Kg 20 ORGANICS ND 15 mg/Kg 1 ND 50 mg/Kg 1 81.7 51.1-141 %Rec 1 E ND 4.9 mg/Kg 1 ND 37.7-212 %Rec 1 ND 0.024 mg/Kg 1	Result RL Qual Units DF Date Analyzed 240 60 mg/Kg 20 6/22/2022 5:00:21 PM Analyst 240 60 mg/Kg 1 6/21/2022 5:00:21 PM Analyst ORGANICS Frage Analyst Analyst ND 15 mg/Kg 1 6/21/2022 4:08:32 PM ND 50 mg/Kg 1 6/21/2022 4:08:32 PM 81.7 51.1-141 %Rec 1 6/21/2022 4:08:32 PM B1.7 51.1-141 %Rec 1 6/21/2022 4:08:32 PM MD 50 mg/Kg 1 6/21/2022 12:20:05 AM 93.6 37.7-212 %Rec 1 6/21/2022 12:20:05 AM 93.6 37.7-212 %Rec 1 6/21/2022 12:20:05 AM MD 0.024 mg/Kg 1 6/21/2022 12:20:05 AM

ND

ND

89.4

0.049

0.098

70-130

mg/Kg 1

mg/Kg 1

1

%Rec

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

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2206940** Date Reported: **6/27/2022**

Client Sample ID: BS22-12 17' Collection Date: 6/14/2022 9:40:00 AM

Project:	Cooper AHH 1 Battery		С	collection Dat	e: 6/1	4/2022 9:40:00 AM	
Lab ID:	2206940-003	Matrix: SOIL]	Received Dat	e: 6/1	7/2022 7:00:00 AM	
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: LRN
Chloride		460	60	mg/Kg	20	6/22/2022 5:12:45 PM	68287
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: JME
Diesel R	ange Organics (DRO)	ND	14	mg/Kg	1	6/21/2022 4:23:03 PM	68231
Motor O	il Range Organics (MRO)	ND	46	mg/Kg	1	6/21/2022 4:23:03 PM	68231
Surr:	DNOP	95.5	51.1-141	%Rec	1	6/21/2022 4:23:03 PM	68231
EPA ME	THOD 8015D: GASOLINE RAN	NGE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	6/21/2022 12:43:38 AM	68217
Surr:	BFB	94.9	37.7-212	%Rec	1	6/21/2022 12:43:38 AM	68217
EPA ME	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene)	ND	0.025	mg/Kg	1	6/21/2022 12:43:38 AM	68217
Toluene		ND	0.049	mg/Kg	1	6/21/2022 12:43:38 AM	68217
Ethylben	izene	ND	0.049	mg/Kg	1	6/21/2022 12:43:38 AM	68217
Xylenes,	Total	ND	0.099	mg/Kg	1	6/21/2022 12:43:38 AM	68217
Surr:	4-Bromofluorobenzene	89.5	70-130	%Rec	1	6/21/2022 12:43:38 AM	68217

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

Qualifiers: * `

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

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Project:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Lab Order 2206940

Date Reported: 6/27/2022

Client Sample ID: BS22-13 17' Collection Date: 6/14/2022 9:45:00 AM Received Date: 6/17/2022 7:00:00 AM

Lab ID: 2206940-004	Matrix: SOIL	R	eceived Dat	e: 6/1	7/2022 7:00:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	110	60	mg/Kg	20	6/22/2022 9:03:57 PM	68297
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/21/2022 4:37:34 PM	68231
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/21/2022 4:37:34 PM	68231
Surr: DNOP	88.2	51.1-141	%Rec	1	6/21/2022 4:37:34 PM	68231
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/21/2022 1:54:39 AM	68217
Surr: BFB	91.3	37.7-212	%Rec	1	6/21/2022 1:54:39 AM	68217
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	6/21/2022 1:54:39 AM	68217
Toluene	ND	0.049	mg/Kg	1	6/21/2022 1:54:39 AM	68217
Ethylbenzene	ND	0.049	mg/Kg	1	6/21/2022 1:54:39 AM	68217
Xylenes, Total	ND	0.099	mg/Kg	1	6/21/2022 1:54:39 AM	68217
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	6/21/2022 1:54:39 AM	68217

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206940

Date Reported: 6/27/2022

CLIENT	EOG		Cl	ient Sample II	D: BS	522-14 17'	
Project:	Cooper AHH 1 Battery		(Collection Dat	e: 6/1	14/2022 9:50:00 AM	
Lab ID:	2206940-005	Matrix: SOIL		Received Dat	e: 6/2	17/2022 7:00:00 AM	
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: LRN
Chloride		ND	60	mg/Kg	20	6/22/2022 5:25:10 PM	68287
EPA ME	THOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	t: JME
Diesel R	ange Organics (DRO)	ND	14	mg/Kg	1	6/21/2022 4:51:56 PM	68231
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	6/21/2022 4:51:56 PM	68231
Surr:	DNOP	90.0	51.1-141	%Rec	1	6/21/2022 4:51:56 PM	68231
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	6/21/2022 2:18:19 AM	68217
Surr:	BFB	92.1	37.7-212	%Rec	1	6/21/2022 2:18:19 AM	68217
EPA ME	THOD 8021B: VOLATILES					Analys	t: NSB
Benzene)	ND	0.025	mg/Kg	1	6/21/2022 2:18:19 AM	68217
Toluene		ND	0.050	mg/Kg	1	6/21/2022 2:18:19 AM	68217
Ethylben	izene	ND	0.050	mg/Kg	1	6/21/2022 2:18:19 AM	68217

ND

89.0

0.099

70-130

mg/Kg

%Rec

1

1

6/21/2022 2:18:19 AM

6/21/2022 2:18:19 AM

68217

68217

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Project:

Lab ID:

Analytical Report Lab Order 2206940

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206940-006

Date Reported: 6/27/2022

Client Sample ID: BS22-15 17' Collection Date: 6/14/2022 9:55:00 AM Received Date: 6/17/2022 7:00:00 AM

				••••		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	250	61	mg/Kg	20	6/22/2022 9:16:18 PM	68297
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/21/2022 5:06:07 PM	68231
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/21/2022 5:06:07 PM	68231
Surr: DNOP	81.3	51.1-141	%Rec	1	6/21/2022 5:06:07 PM	68231
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/21/2022 2:41:53 AM	68217
Surr: BFB	97.4	37.7-212	%Rec	1	6/21/2022 2:41:53 AM	68217
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	6/21/2022 2:41:53 AM	68217
Toluene	ND	0.050	mg/Kg	1	6/21/2022 2:41:53 AM	68217
Ethylbenzene	ND	0.050	mg/Kg	1	6/21/2022 2:41:53 AM	68217
Xylenes, Total	ND	0.099	mg/Kg	1	6/21/2022 2:41:53 AM	68217
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	6/21/2022 2:41:53 AM	68217

Matrix: SOIL

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

Qualifiers: * Value

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

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Project:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

Lab Order **2206940** Date Reported: **6/27/2022**

Client Sample ID: BS22-19 17' Collection Date: 6/14/2022 10:45:00 AM Received Date: 6/17/2022 7:00:00 AM

Lab ID: 2206940-007	Matrix: SOIL	R	eceived Dat	e: 6/1	7/2022 7:00:00 AM	
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	78	60	mg/Kg	20	6/22/2022 9:28:38 PM	68297
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/21/2022 5:20:30 PM	68231
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/21/2022 5:20:30 PM	68231
Surr: DNOP	96.3	51.1-141	%Rec	1	6/21/2022 5:20:30 PM	68231
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/21/2022 3:05:32 AM	68217
Surr: BFB	92.2	37.7-212	%Rec	1	6/21/2022 3:05:32 AM	68217
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/21/2022 3:05:32 AM	68217
Toluene	ND	0.050	mg/Kg	1	6/21/2022 3:05:32 AM	68217
Ethylbenzene	ND	0.050	mg/Kg	1	6/21/2022 3:05:32 AM	68217
Xylenes, Total	ND	0.10	mg/Kg	1	6/21/2022 3:05:32 AM	68217
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	6/21/2022 3:05:32 AM	68217

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

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page	351	of	602
1 uge	551	<i>vj</i>	004

EPUKI	WO#:	2206940	
nalysis Laboratory, Inc.		27-Jun-22	

Client:	EOG		
Project:	Cooper	AHH 1 Battery	
Sample ID:	MB-68297	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68297	RunNo: 88965
Prep Date:	6/22/2022		
Flep Date.	6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159374 Units: mg/Kg
Analyte			SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68297	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68297	RunNo: 88965
Prep Date:	6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159375 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		15 1.5 15.00	0 97.6 90 110
Sample ID:	MB-68287	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68287	RunNo: 88947
Prep Date:	6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159736 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68287	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68287	RunNo: 88947
Prep Date:	6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3159737 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

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

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EOG

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Cooper A	AHH 1 Battery			
Sample ID: MB-68231	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 68231	RunNo: 88925		
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3158629	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 15			
Motor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	9.1 10.00	90.7 51.1	141	
Sample ID: LCS-68231	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 68231	RunNo: 88925		
Prep Date: 6/20/2022	Analysis Date: 6/21/2022	SeqNo: 3158631	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	43 15 50.00	0 86.5 64.4	127	
Surr: DNOP	4.3 5.000	86.2 51.1	141	
Sample ID: LCS-68282	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 68282	RunNo: 88913		
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3158877	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	3.1 5.000	61.2 51.1	141	
Sample ID: MB-68282	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 68282	RunNo: 88913		
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3158878	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	9.1 10.00	90.7 51.1	141	

Client:

Qualifiers:

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

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WO#: 2206940 27-Jun-22

	WO#:	2206940	
nvironmental Analysis Laboratory, Inc.		27-Jun-22	

Client: EOG Project: Coop	er AHH 1 Battery			
Sample ID: mb-68217	SampType: MBLK		8015D: Gasoline Range	
Client ID: PBS Prep Date: 6/19/2022	Batch ID: 68217 Analysis Date: 6/21/2022	RunNo: 88881 SeqNo: 3155809	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 950 1000	94.8 37.7	212	
Sample ID: Ics-68217	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 68217	RunNo: 88881		
Prep Date: 6/19/2022	Analysis Date: 6/20/2022	SeqNo: 3155810	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	28 5.0 25.00 2100 1000	0 113 72.3 215 37.7	137 212	S

Qualifiers:

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

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EOG

Client:

	WO#:	2206940
al Analysis Laboratory, Inc.		27-Jun-22

Project: Cooper	AHH 1 Bat	tery								
Sample ID: mb-68217	Samp	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 682	217	F	RunNo: 88	3881				
Prep Date: 6/19/2022	Analysis [Date: 6/2	21/2022	S	SeqNo: 31	155844	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			
	0.92	Гуре: LC		Tes	-		130 8021B: Volati	les		
Surr: 4-Bromofluorobenzene	0.92 Samp ⁻	Гуре: LC h ID: 682	s		-	PA Method		les		
Surr: 4-Bromofluorobenzene Sample ID: LCS-68217	0.92 Samp ⁻	h ID: 682	S 217	F	tCode: EF	PA Method				
Surr: 4-Bromofluorobenzene Sample ID: LCS-68217 Client ID: LCSS	0.92 Samp ⁻ Batc	h ID: 682	S 217 20/2022	F	tCode: EF	PA Method	8021B: Volati		RPDLimit	Qual
Surr: 4-BromofluorobenzeneSample ID:LCS-68217Client ID:LCSSPrep Date:6/19/2022	0.92 Samp ⁻ Batc Analysis [h ID: 682 Date: 6/2	S 217 20/2022	F	atCode: EF RunNo: 88 SeqNo: 31	PA Method 3 3881 155845	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID: LCS-68217 Client ID: LCSS Prep Date: 6/19/2022 Analyte Benzene	0.92 Samp Batc Analysis I Result	h ID: 682 Date: 6/2 PQL	S 217 20/2022 SPK value	F S SPK Ref Val	tCode: EF RunNo: 88 SeqNo: 31 %REC	PA Method 3881 155845 LowLimit	8021B: Volati Units: mg/K HighLimit	g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID: LCS-68217 Client ID: LCSS Prep Date: 6/19/2022 Analyte	0.92 Samp ⁻ Batc Analysis I Result 0.84	h ID: 682 Date: 6/2 PQL 0.025	S 217 20/2022 SPK value 1.000	F SPK Ref Val 0	tCode: EF RunNo: 88 SeqNo: 31 %REC 83.5	PA Method 3 8881 155845 LowLimit 80	8021B: Volati Units: mg/K HighLimit 120	g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID: LCS-68217 Client ID: LCSS Prep Date: 6/19/2022 Analyte Benzene Toluene	0.92 Samp ⁻ Batc Analysis I Result 0.84 0.89	h ID: 682 Date: 6/2 PQL 0.025 0.050	S 217 20/2022 SPK value 1.000 1.000	F SPK Ref Val 0 0	tCode: EF RunNo: 88 SeqNo: 31 %REC 83.5 89.1	PA Method 3 8881 155845 LowLimit 80 80	8021B: Volati Units: mg/K HighLimit 120 120	g	RPDLimit	Qual

Qualifiers:

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

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ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environ. TEL: 505-345 Website: w	49 Albuque 5-3975 FAX	001 Haw rque, NA 1: 505-34	kins NE 1 87109 15-4107	Sa	Page 35
Client Name: EOG	Work Order Nu	mber: 22	06940			RcptNo: 1
Received By: Juan Rojas	6/17/2022 7:00:0	0 AM		Lun	By	
Completed By: Cheyenne Cason	6/17/2022 7:37:10	0 AM		14.	L	
Reviewed By: コハ 6/17/22				Cpan		
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No		Not Present
2. How was the sample delivered?			urier			Not resent
		000				
3. Was an attempt made to cool the samples			-			
- The an allempt made to cool the samples	67	Yes	V	No		
4. Were all samples received at a temperature	re of >0° C to 6.0°C	Yes	V	No		
5. Sample(s) in proper container(s)?		Yes	•	No		
6. Sufficient sample volume for indicated test	(s)?	Yes	~	No		
7. Are samples (except VOA and ONG) prope	erly 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	П	NA 🔽
10. Were any sample containers received brok		Yes		No		
11. Does paperwork match bottle labels?		Yes		No		# of preserved bottles checked for pH:
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain o		-			_	(<2 or >12 unless noted)
13. Is it clear what analyses were requested?	r Custody?	Yes Yes	C			Adjusted?
14. Were all holding times able to be met?				No No		Checked by: C in a Clinit
(If no, notify customer for authorization.)		103		NU		Checked by: Cmc 6/17/20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No		
Person Notified:	Date					
By Whom:	Via:	eMa	ail 🗖 I	Phone	Fax	In Person
Regarding:					1. B.Y.	
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp ºC Condition S 1 3.5 Good Ye	eal Intact Seal No	Seal Da	ite	Signed E	By	

Page 1 of 1

Chase Settle Mailing Address:						ENVIRONMENTAL
Settle	Standard D Rush			ANALY	STS I AB	
	Project Name:			vmellen www	www.hallenvironmental.com	
	COOPES AHH #1	L Ratter	4901 Hawkins NE		Albumerane NM 87109	8/3 8/100
			Tel 505-34	10	Eax 505-345-4107	
Phone #:	22E-00123-	-04		Anal	Analysis Request	
email or Fax#: MDEDDING Vertex, CD	Project Manager:		1 m	⁺C	ıt)	
	_		MR			9:41
Standard Level 4 (Full Validation)	Monica Papin		/ 03			AM
on: 🗆 Az Compliance	r: M		Я D N 2808			1
Other		□ No	05 8/si	S	(AC	
EDD (Type) the second seco	# of Coolers: \	38.	-15) ebi:	elete	-۸C	
	Cooler Temp(including CF):	3.5-6=3.5 (°C)	15D bitse	eM 8	(AO	
Date Time Matrix Sample Name	Container Preservative Type and # Type	HEAL No.	87EX 08:H97 9081 Pd 8081 Pd 8081 Pd 8081 Pd	а 2443 b В СКА 8 Су, F, E	V) 0328 8270 (S Total Co	
6/4 10:50 50:1 8522-02 17'		col	1			
1 9:30 1 BS22-10 17'		1 200		-		
9:40 BS22-12 17'		603				
9:45 3522-13 17'	+	Covy -				
1.50 RS22-14 17'		005				
		006				
W 10:45 V R522-19 17'	1	607	1			
Udishar Time: Relinquished by: Udishar 1300 XIViteric Wier	Repeived by: Wia:	Date Time Re	Remarks:	CC: No Peppin	eodin	
SUNCE (5 Relinquished by:	Received by: Via:	Date Time	č			e 356 0 + 117
1 MMM	1 mmn	211/10 1000		ect bil	irect bill EUG The	is sit

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
E0G	💢 Standard 📩 Rush	>
	+	
Mailing Address:	COOPU ANN #1 BOHUS	37109
		Fax 505-345-4107
Phone #:	226-00123-04	Analysis Request
email or Fax#:	Project Manager:	() () () ()
QA/QC Package:	Monica Peppin	ZMIZC PO₄, SG
:uo	Sampler: NVW	3227(10 ₂ , 10 ₂ ,
NELAC Other	On Ice: 🛛 Yes 🗆 No	 (O) (a) (b) (b)
EDD (Type)	# of Coolers: ((GF 103 103 110 103 110
	Cooler Temp(including CF): 3.5-023.5 (°C)	15D estic y 83 hr, 1 hr, 1 OA)
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2705940	08:19:08 8081 Pd PAHs b RCRA 8 CI, F, E CI, F, E CI, F, E 8260 (V
	/	
Date: Time: Relinquished by: U/is/12 8/i) / U/U + U/U/U Date: Time: Relinquished by:	Received by: Via: Date Time icouvily 6/17/2310 Received by/ Via: Date Time	Remarks:
		357 of
If necessary, samples submitted to Hall Environmental may be subc	contracted to other accredited laboratories. This serves as notice of this	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



June 27, 2022

Monica Peppin EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Cooper AHH 1 Battery

OrderNo.: 2206996

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206996

Date Reported: 6/27/2022

CLIENT: EOG			ent Sample II			
Project: Cooper AHH 1 Battery		(Collection Date	e: 6/1	6/2022 10:30:00 AM	
Lab ID: 2206996-001	Matrix: SOIL		Received Date	e: 6/1	8/2022 9:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	440	60	mg/Kg	20	6/23/2022 10:00:05 PM	68321
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/23/2022 4:33:39 AM	68272
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/23/2022 4:33:39 AM	68272
Surr: DNOP	72.8	51.1-141	%Rec	1	6/23/2022 4:33:39 AM	68272
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2022 11:28:00 AM	68229
Surr: BFB	85.6	37.7-212	%Rec	1	6/22/2022 11:28:00 AM	68229
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	6/22/2022 11:28:00 AM	68229
Toluene	ND	0.048	mg/Kg	1	6/22/2022 11:28:00 AM	68229
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2022 11:28:00 AM	68229
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2022 11:28:00 AM	68229
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	6/22/2022 11:28:00 AM	68229

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

Qualifiers:

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

RL Reporting Limit

Page 1 of 9

Lab Order 2206996

Date Reported: 6/27/2022

CLIENT: EOG Project: Cooper AHH 1 Battery	Client Sample ID: BS22-20 17' Collection Date: 6/16/2022					
Lab ID: 2206996-002	Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	Analyst: NAI					
Chloride	460	60	mg/Kg	20	6/23/2022 10:12:29 PM	68321
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	t: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 4:44:30 AM	68272
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/23/2022 4:44:30 AM	68272
Surr: DNOP	80.8	51.1-141	%Rec	1	6/23/2022 4:44:30 AM	68272
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2022 11:48:00 AM	68229
Surr: BFB	87.7	37.7-212	%Rec	1	6/22/2022 11:48:00 AM	68229
EPA METHOD 8021B: VOLATILES	Analyst: BRM					
Benzene	ND	0.025	mg/Kg	1	6/22/2022 11:48:00 AM	68229
Toluene	ND	0.049	mg/Kg	1	6/22/2022 11:48:00 AM	68229
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2022 11:48:00 AM	68229
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2022 11:48:00 AM	68229
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	6/22/2022 11:48:00 AM	68229

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2206996

Date Reported: 6/27/2022

CLIENT: EOG Project: Cooper AHH 1 Battery Lab ID: 2206996-003	Client Sample ID: BS22-21 17'Collection Date: 6/16/2022Matrix: SOILReceived Date: 6/18/2022 9:50:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: NAI				
Chloride	300	61	mg/Kg	20	6/23/2022 10:24:53 PM	68321				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	ED				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 4:55:17 AM	68272				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/23/2022 4:55:17 AM	68272				
Surr: DNOP	76.2	51.1-141	%Rec	1	6/23/2022 4:55:17 AM	68272				
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	BRM				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/22/2022 12:07:00 PM	68229				
Surr: BFB	86.0	37.7-212	%Rec	1	6/22/2022 12:07:00 PM	68229				
EPA METHOD 8021B: VOLATILES					Analyst	BRM				
Benzene	ND	0.024	mg/Kg	1	6/22/2022 12:07:00 PM	68229				
Toluene	ND	0.047	mg/Kg	1	6/22/2022 12:07:00 PM	68229				
Ethylbenzene	ND	0.047	mg/Kg	1	6/22/2022 12:07:00 PM	68229				
Xylenes, Total	ND	0.095	mg/Kg	1	6/22/2022 12:07:00 PM	68229				
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	6/22/2022 12:07:00 PM	68229				

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206996

Date Reported: 6/27/2022

CLIENT: EOG Project: Cooper AHH 1 Battery	Client Sample ID: BS22-22 17' Collection Date: 6/16/2022 Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM									
Lab ID: 2206996-004	Matrix: SOIL		Received Dat	e: 6/]	18/2022 9:50:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: NAI				
Chloride	240	61	mg/Kg	20	6/23/2022 10:37:18 PM	68321				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: ED				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 5:06:02 AM	68272				
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	6/23/2022 5:06:02 AM	68272				
Surr: DNOP	84.2	51.1-141	%Rec	1	6/23/2022 5:06:02 AM	68272				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: BRM				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2022 12:27:00 PM	68229				
Surr: BFB	86.1	37.7-212	%Rec	1	6/22/2022 12:27:00 PM	68229				
EPA METHOD 8021B: VOLATILES					Analys	t: BRM				
Benzene	ND	0.024	mg/Kg	1	6/22/2022 12:27:00 PM	68229				
Toluene	ND	0.048	mg/Kg	1	6/22/2022 12:27:00 PM	68229				
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2022 12:27:00 PM	68229				
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2022 12:27:00 PM	68229				
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	6/22/2022 12:27:00 PM	68229				

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

Qualifiers:

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

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Hall Environmental	Analysis]	Laboratory.	Inc.

Lab Order 2206996

Date Reported: 6/27/2022

CLIENT: EOG Project: Cooper AHH 1 Battery	Client Sample ID: BS22-23 17' Collection Date: 6/16/2022									
Lab ID: 2206996-005	Matrix: SOIL		Received Dat	e: 6/1	18/2022 9:50:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: NAI				
Chloride	ND	60	mg/Kg	20	6/23/2022 10:49:42 PM	68321				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: ED				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 5:16:44 AM	68272				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/23/2022 5:16:44 AM	68272				
Surr: DNOP	80.7	51.1-141	%Rec	1	6/23/2022 5:16:44 AM	68272				
EPA METHOD 8015D: GASOLINE RANG	θE				Analys	t: BRM				
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/22/2022 12:47:00 PM	68229				
Surr: BFB	88.5	37.7-212	%Rec	1	6/22/2022 12:47:00 PM	68229				
EPA METHOD 8021B: VOLATILES					Analys	t: BRM				
Benzene	ND	0.023	mg/Kg	1	6/22/2022 12:47:00 PM	68229				
Toluene	ND	0.046	mg/Kg	1	6/22/2022 12:47:00 PM	68229				
Ethylbenzene	ND	0.046	mg/Kg	1	6/22/2022 12:47:00 PM	68229				
Xylenes, Total	ND	0.092	mg/Kg	1	6/22/2022 12:47:00 PM	68229				
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	6/22/2022 12:47:00 PM	68229				

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

Qualifiers:

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

Page 5 of 9

.

Result

14

PQL

1.5

L.		tal Analysis Laborat	wo#:	2206996 27-Jun-22
Client: Project:	EOG Coope	r AHH 1 Battery		
Sample ID:	MB-68321	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 68321	RunNo: 89005	
Prep Date:	6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160895 Units: mg/Kg	
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID:	LCS-68321	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 68321	RunNo: 89005	
Prep Date:	6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160896 Units: mg/Kg	

0

%REC

93.2

LowLimit

90

HighLimit

110

SPK value SPK Ref Val

15.00

Qualifiers:

Analyte

Chloride

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

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%RPD

RPDLimit

Qual

QC SUMMARY REPORT Hall Env

-		r REPORT al Analysis L		ry, Inc.					WO#:	2206996 27-Jun-22
Client: Project:	EOG Cooper	AHH 1 Battery								
Sample ID:	LCS-68211	SampType: L(cs	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	211	F	RunNo: 88	8913				
Prep Date:	6/17/2022	Analysis Date: 6	/21/2022	S	SeqNo: 31	158544	Units: %Rec			
Analyte		Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	3.8	5.000		75.8	51.1	141			
Sample ID:	MB-68211	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	PBS	Batch ID: 68	211	F	RunNo: 88	8913				
Prep Date:	6/17/2022	Analysis Date: 6	/21/2022	ç	SeqNo: 31	158547	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	9.9	10.00		99.0	51.1	141			
Sample ID:	LCS-68282	SampType: LC	cs	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	282	F	RunNo: 88	8913				
Prep Date:	6/22/2022	Analysis Date: 6	/22/2022	S	SeqNo: 31	158877	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	3.1	5.000		61.2	51.1	141			
Sample ID:	MB-68282	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	PBS	Batch ID: 68	282	F	RunNo: 88	8913				
Prep Date:	6/22/2022	Analysis Date: 6	/22/2022	S	SeqNo: 31	158878	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	9.1	10.00		90.7	51.1	141			
Sample ID:	LCS-68272	SampType: L(CS	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch ID: 68	272	F	RunNo: 88	8913				
Prep Date:	6/21/2022	Analysis Date: 6	/23/2022	S	SeqNo: 31	159355	Units: mg/Kg	9		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Diesel Range Organics (DRO)	50	15	50.00	0	100	64.4	127		
Surr: DNOP	3.7		5.000		73.7	51.1	141		
Sample ID: MB-68272	SampT	Type: ME	BLK	Tes	tCode: EF	PA Method 8	8015M/D: Die	sel Range	Organics
Client ID: PBS	Batcl	h ID: 682	272	F	RunNo: 8 8	8913			
Prep Date: 6/21/2022	Analysis E	Date: 6/	23/2022	S	SeqNo: 3'	159357	Units: mg/K	g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit

10.00

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

ND

ND

6.8

15

50

Analyte detected in the associated Method Blank в

68.3

51.1

141

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Qual

Qual

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:EOGProject:Cooper	AHH 1 Bat	tery								
Sample ID: Ics-68229	Samp	Type: LC	S	Tes	stCode: El	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batc	h ID: 68	229	F	RunNo: 8	8959		•		
Prep Date: 6/20/2022	Analysis I	Date: 6/	22/2022	Ś	SeqNo: 3	158989	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.5	72.3	137			
Surr: BFB	1900		1000		189	37.7	212			
Sample ID: mb-68229	Samp	Туре: МЕ	BLK	Tes	stCode: El	PA Method	8015D: Gaso	line Range	•	
Client ID: PBS	Batc	h ID: 68	229	F	RunNo: 8	8959				
Prep Date: 6/20/2022	Analysis I	Date: 6/	22/2022	S	SeqNo: 3	158990	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.9	37.7	212			

Qualifiers:

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

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WO#: 2206996 27-Jun-22 EOG

Client:

Project:

Sample ID: Ics-68229

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Cooper AHH 1 Battery

WO#:	2206996
	27-Jun-22

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

Page 9 of 9

- Analyte detected in the associated Method Blank В Е
- J
- Р

Qualifiers:

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

с.	27-Jun-22
TestCode: EPA Method 8021B: Volatiles	

Campio 12: 103-00223										
Client ID: LCSS	Batc	h ID: 682	229	F						
Prep Date: 6/20/2022	Analysis [Analysis Date: 6/22/2022			SeqNo: 3159043			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.3	70	130			
Sample ID: mb-68229 Client ID: PBS		Гуре: МЕ h ID: 682			tCode: Ef RunNo: 8		8021B: Volati	les		
•		h ID: 682	229	F		8959	8021B: Volati Units: mg/K			
Client ID: PBS	Batc	h ID: 682	229	F	RunNo: 8	8959			RPDLimit	Qual
Client ID: PBS Prep Date: 6/20/2022	Batc Analysis [h ID: 682 Date: 6/2	229 22/2022	F	RunNo: 8 8 SeqNo: 3 4	3959 159044	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/20/2022 Analyte	Batc Analysis I Result	h ID: 682 Date: 6/2 PQL	229 22/2022	F	RunNo: 8 8 SeqNo: 3 4	3959 159044	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/20/2022 Analyte Benzene	Batc Analysis I Result ND	h ID: 682 Date: 6/2 PQL 0.025	229 22/2022	F	RunNo: 8 8 SeqNo: 3 4	3959 159044	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/20/2022 Analyte Benzene Toluene	Batc Analysis I Result ND ND	h ID: 682 Date: 6/2 PQL 0.025 0.050	229 22/2022	F	RunNo: 8 8 SeqNo: 3 4	3959 159044	Units: mg/K	g	RPDLimit	Qual

ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	49 Albuquer -3975 FAX	vsis Laborato 01 Hawkins N que, NM 8710 : 505-345-410 ironmental.co	VE 09 07	Sar	Sample Log-In Check List				
Client Name: EOG	Work Order Nur	mber: 220	6996			RcptNo:	1			
Received By: Isaiah Ortiz	6/18/2022 9:50:00) AM		I	-0	24				
Completed By: Isaiah Ortiz Reviewed By: A de 18/2022	6/18/2022 11:11:3	36 AM		I	-0	24				
Chain of Custody										
1. Is Chain of Custody complete?		Yes		No		Not Present				
2. How was the sample delivered?		Cou	irier							
Log In 3. Was an attempt made to cool the samples?						- A				
o. Was an attempt made to cool the samples?		Yes		No		NA 🗌				
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes		No						
5. Sample(s) in proper container(s)?		Yes		No						
6. Sufficient sample volume for indicated test(s)	?	Yes		No						
7. Are samples (except VOA and ONG) properly	preserved?	Yes		No						
8. Was preservative added to bottles?		Yes		No						
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No		NA 🗹	10,2			
0. Were any sample containers received broker	?	Yes		No	~	#	1.420			
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		# of preserved bottles checked for pH: (<2 of >	12 unless noted)			
2. Are matrices correctly identified on Chain of C	ustody?	Yes		No		Adjusted?				
3. Is it clear what analyses were requested?		Yes	\checkmark	No						
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by:				
pecial Handling (if applicable)										
15. Was client notified of all discrepancies with th	is order?	Yes		No		NA 🗹				
Person Notified:	Date	ə:		-	-					
By Whom: Regarding:	Via:	🗌 eM	ail 🗌 Pho	ne 🗌] Fax	In Person				
Client Instructions:			_	_	-					
16. Additional remarks:										
	al Intact Seal No Present	Seal D	ate Si	gned	Ву					

Page 1 of 1

Man Multure The come part area and Direct Bill Each	11 COU Time:	Day: Time: Relinquished by:	022 10	9:49:4				1 10:50 1 3522-23 1	1 rt	1 15-565 BY:01	10:35 BS22-20 1	6-16 10:30 So.1 BS22-11 1	Date Time Matrix Sample Name		EDD (Type)	U NELAC D Other	on:	Standard Level 4 (Full Validation)	QA/QC Package:	email or Fax#:	Phone #:		Mailing Address:	P Chuse Settle	Bient: EUG	Chain-of-Custody Record
120								1 1	7'	1:	1.	2, 405	Container F Type and #	Cooler Temp(including CF):	# of Coolers:	On Ice:	r: M	M.		Project Manager:	22E-C	Project #:		Project Name:	🔍 Standard	Turn-Around Time:
Topin pA								1			_	ice	Preservative Type 2	ncluding CF): 5.8		⊈Yes □N	. Wier	Peppin		ger:	00123-04	5	Batterv	0	Rush	3
TT ORSO	ate							200	004	003	007	100	HEAL NO.	10 (°C)		No						1		THHH41	, or Y	
	Remarks:										-	7	BTEX		BE	/ 7	ГМВ	's (80	021)			-	E C		
	arks:		-	-		-		-			-	V	TPH:80					_	-))		Tel	100			
	5												8081 F EDB (N	-			-	PCB	s	-	1 el: 000-040-097 0	Tel 505 345 3075	L L	L		
D	60:												PAHs t		-		,	SIM	s	-	040-	245 VINIS	king			
rect	X												RCRA	1.1.1.1.1.1		-					A			www.hallenvironm	ANALL	
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69	Pepp:n														(-sen	IV ADS	seni	-	vsis Request	For EDE 245 4407			ENVIRONMENTAL	
					-											-	-		-					C		
			101												-	-			-					7	7	È.

Released to Imaging: 2/24/2023 2:37:49 PM



June 27, 2022

Monica Peppin EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Cooper AHH 1 Battery

OrderNo.: 2206997

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

6/22/2022 1:07:00 PM 68229

CLIENT: EOG		C	ient Sample II	n. D (200 16 17	
Project: Cooper AHH 1 Battery			-		15/2022 9:30:00 AM	
Lab ID: 2206997-001	Matrix: SOIL	18/2022 9:50:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	NAI
Chloride	130	61	mg/Kg	20	6/23/2022 11:26:55 PM	68321
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 5:27:24 AM	68272
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/23/2022 5:27:24 AM	68272
Surr: DNOP	84.1	51.1-141	%Rec	1	6/23/2022 5:27:24 AM	68272
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2022 1:07:00 PM	68229
Surr: BFB	87.8	37.7-212	%Rec	1	6/22/2022 1:07:00 PM	68229
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	6/22/2022 1:07:00 PM	68229
Toluene	ND	0.050	mg/Kg	1	6/22/2022 1:07:00 PM	68229
Ethylbenzene	ND	0.050	mg/Kg	1	6/22/2022 1:07:00 PM	68229
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2022 1:07:00 PM	68229

87.7

70-130

%Rec

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

6/22/2022 1:27:00 PM 68229

CLIENT:	EOG		C	ient Sample I	D:BS	822-17 17'	
Project:	Cooper AHH 1 Battery		(Collection Dat	e: 6/1	5/2022 9:35:00 AM	
Lab ID:	2206997-002	Matrix: SOIL		8/2022 9:50:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: NAI
Chloride		ND	60	mg/Kg	20	6/23/2022 11:39:19 PM	68321
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	ED
Diesel Ra	ange Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 5:38:06 AM	68272
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	6/23/2022 5:38:06 AM	68272
Surr: D	NOP	84.6	51.1-141	%Rec	1	6/23/2022 5:38:06 AM	68272
EPA MET	HOD 8015D: GASOLINE RAM	NGE				Analyst	BRM
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2022 1:27:00 PM	68229
Surr: B	FB	86.0	37.7-212	%Rec	1	6/22/2022 1:27:00 PM	68229
EPA MET	HOD 8021B: VOLATILES					Analyst	BRM
Benzene		ND	0.025	mg/Kg	1	6/22/2022 1:27:00 PM	68229
Toluene		ND	0.049	mg/Kg	1	6/22/2022 1:27:00 PM	68229
Ethylbenz	zene	ND	0.049	mg/Kg	1	6/22/2022 1:27:00 PM	68229
Xylenes,	Total	ND	0.099	mg/Kg	1	6/22/2022 1:27:00 PM	68229

86.9

70-130

%Rec

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 interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

6/22/2022 1:46:00 PM 68229

CLIENT: EOG		Cl	ient Sample II	D: BS	522-18 17'				
Project: Cooper AHH 1 Battery		(Collection Dat	e: 6/1	15/2022 9:40:00 AM				
Lab ID: 2206997-003	Matrix: SOIL		Received Date: 6/18/2022 9:50:00 A						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: NAI			
Chloride	150	60	mg/Kg	20	6/24/2022 12:41:21 AM	68321			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: ED			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 5:48:46 AM	68272			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/23/2022 5:48:46 AM	68272			
Surr: DNOP	58.8	51.1-141	%Rec	1	6/23/2022 5:48:46 AM	68272			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	BRM			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2022 1:46:00 PM	68229			
Surr: BFB	83.5	37.7-212	%Rec	1	6/22/2022 1:46:00 PM	68229			
EPA METHOD 8021B: VOLATILES					Analyst	BRM			
Benzene	ND	0.024	mg/Kg	1	6/22/2022 1:46:00 PM	68229			
Toluene	ND	0.048	mg/Kg	1	6/22/2022 1:46:00 PM	68229			
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2022 1:46:00 PM	68229			
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2022 1:46:00 PM	68229			

82.9

70-130

%Rec

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

CLIENT: EOG		Cl	ient Sample II	D: BS	522-24 17'	
Project: Cooper AHH 1 Battery		(Collection Dat	e: 6/	15/2022 10:00:00 AM	
Lab ID: 2206997-004	Matrix: SOIL		Received Dat	e: 6/2	18/2022 9:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	NAI
Chloride	600	60	mg/Kg	20	6/24/2022 12:53:45 AM	68321
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/23/2022 5:59:27 AM	68272
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/23/2022 5:59:27 AM	68272
Surr: DNOP	64.3	51.1-141	%Rec	1	6/23/2022 5:59:27 AM	68272
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2022 2:26:00 PM	68229
Surr: BFB	85.8	37.7-212	%Rec	1	6/22/2022 2:26:00 PM	68229
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.024	mg/Kg	1	6/22/2022 2:26:00 PM	68229
Toluene	ND	0.048	mg/Kg	1	6/22/2022 2:26:00 PM	68229
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2022 2:26:00 PM	68229
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2022 2:26:00 PM	68229
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	6/22/2022 2:26:00 PM	68229

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

CLIENT: EOG		Cl	ient Sample II	D: BS	522-25 17'			
Project: Cooper AHH 1 Battery		(Collection Dat	e: 6/1	15/2022 10:05:00 AM			
Lab ID: 2206997-005	Matrix: SOIL		Received Dat	red Date: 6/18/2022 9:50:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	NAI		
Chloride	370	60	mg/Kg	20	6/24/2022 1:06:09 AM	68321		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED		
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/23/2022 6:10:07 AM	68272		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/23/2022 6:10:07 AM	68272		
Surr: DNOP	77.1	51.1-141	%Rec	1	6/23/2022 6:10:07 AM	68272		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	BRM		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2022 2:45:00 PM	68229		
Surr: BFB	85.3	37.7-212	%Rec	1	6/22/2022 2:45:00 PM	68229		
EPA METHOD 8021B: VOLATILES					Analyst	BRM		
Benzene	ND	0.025	mg/Kg	1	6/22/2022 2:45:00 PM	68229		
Toluene	ND	0.049	mg/Kg	1	6/22/2022 2:45:00 PM	68229		
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2022 2:45:00 PM	68229		
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2022 2:45:00 PM	68229		
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	6/22/2022 2:45:00 PM	68229		

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

CLIENT: EOG		Cl	ient Sample II	D: BS	822-26 17'						
Project: Cooper AHH 1 Battery	Collection Date: 6/15/2022 10:10:00 AM										
Lab ID: 2206997-006	Matrix: SOIL		Received Date: 6/18/2022 9:50:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: NAI					
Chloride	ND	60	mg/Kg	20	6/24/2022 1:18:34 AM	68321					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: ED					
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 6:20:50 AM	68272					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/23/2022 6:20:50 AM	68272					
Surr: DNOP	78.1	51.1-141	%Rec	1	6/23/2022 6:20:50 AM	68272					
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2022 3:05:00 PM	68229					
Surr: BFB	87.5	37.7-212	%Rec	1	6/22/2022 3:05:00 PM	68229					
EPA METHOD 8021B: VOLATILES					Analys	t: BRM					
Benzene	ND	0.024	mg/Kg	1	6/22/2022 3:05:00 PM	68229					
Toluene	ND	0.048	mg/Kg	1	6/22/2022 3:05:00 PM	68229					
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2022 3:05:00 PM	68229					
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2022 3:05:00 PM	68229					
Surr: 4-Bromofluorobenzene	86.1	70-130	%Rec	1	6/22/2022 3:05:00 PM	68229					

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

CLIENT: EOG		Cl	ient Sample II	D: BS	22-27 17'	
Project: Cooper AHH 1 Battery		(Collection Dat	e: 6/1	5/2022 10:15:00 AM	
Lab ID: 2206997-007	Matrix: SOIL		8/2022 9:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	6/24/2022 1:30:59 AM	68321
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 6:31:34 AM	68272
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/23/2022 6:31:34 AM	68272
Surr: DNOP	62.6	51.1-141	%Rec	1	6/23/2022 6:31:34 AM	68272
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2022 3:25:00 PM	68229
Surr: BFB	87.2	37.7-212	%Rec	1	6/22/2022 3:25:00 PM	68229
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	6/22/2022 3:25:00 PM	68229
Toluene	ND	0.049	mg/Kg	1	6/22/2022 3:25:00 PM	68229
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2022 3:25:00 PM	68229
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2022 3:25:00 PM	68229
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	6/22/2022 3:25:00 PM	68229

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206997

Date Reported: 6/27/2022

CLIENT: EOG Project: Cooper AHH 1 Battery	Client Sample ID: BS22-28 17' Collection Date: 6/15/2022 10:20:00 AM											
Lab ID: 2206997-008	Matrix: SOIL Received Date: 6/18/2022 9:50:00 A											
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	: NAI						
Chloride	ND	59	mg/Kg	20	6/24/2022 1:43:23 AM	68321						
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED:						
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/23/2022 6:42:18 AM	68272						
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/23/2022 6:42:18 AM	68272						
Surr: DNOP	84.0	51.1-141	%Rec	1	6/23/2022 6:42:18 AM	68272						
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM						
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/22/2022 3:44:00 PM	68229						
Surr: BFB	86.2	37.7-212	%Rec	1	6/22/2022 3:44:00 PM	68229						
EPA METHOD 8021B: VOLATILES					Analyst	BRM						
Benzene	ND	0.023	mg/Kg	1	6/22/2022 3:44:00 PM	68229						
Toluene	ND	0.047	mg/Kg	1	6/22/2022 3:44:00 PM	68229						
Ethylbenzene	ND	0.047	mg/Kg	1	6/22/2022 3:44:00 PM	68229						
Xylenes, Total	ND	0.093	mg/Kg	1	6/22/2022 3:44:00 PM	68229						
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	6/22/2022 3:44:00 PM	68229						

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

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Client: Project:	EOG Cooper	AHH 1 Batt	ery								
Sample ID:	MB-68321	SampT	ype: mk	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 68	321	F	RunNo: 8	9005				
Prep Date:	6/23/2022	Analysis D	ate: 6/	23/2022	S	SeqNo: 3	160895	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-68321	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	ID: 68	321	F	RunNo: 8	9005				
Prep Date:	6/23/2022	Analysis D	ate: 6/	23/2022	S	SeqNo: 3	160896	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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2206997

27-Jun-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

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	WO#:	2206997	
nalysis Laboratory, Inc.		27-Jun-22	

Client: Project:	EOG Cooper A	AHH 1 Batter	у								
Sample ID: L	_CS-68211	SampTyp	e: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: L	CSS	Batch II	D: 68	211	F	RunNo: 88	8913				
Prep Date:	6/17/2022	Analysis Date	e: 6/	21/2022	S	SeqNo: 31	158544	Units: %Rec	:		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.8		5.000		75.8	51.1	141			
Sample ID: N	MB-68211	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: F	PBS	Batch II	D: 68	211	F	RunNo: 88	8913				
Prep Date:	6/17/2022	Analysis Date	e: 6/	21/2022	5	SeqNo: 31	158547	Units: %Rec	;		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.9		10.00		99.0	51.1	141			
Sample ID: L	_CS-68272	SampTyp	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID:	CSS	Batch II	D: 68	272	F	RunNo: 88	8913				
Prep Date:	6/21/2022	Analysis Date	e: 6/	23/2022	S	SeqNo: 31	159355	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	ganics (DRO)	50	15	50.00	0	100	64.4	127			
Surr: DNOP		3.7		5.000		73.7	51.1	141			
Sample ID: N	MB-68272	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: F	PBS	Batch I	D: 68	272	F	RunNo: 88	8913				
Prep Date:	6/21/2022	Analysis Date	e: 6/	23/2022	S	SeqNo: 31	159357	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	manice (DRO)	ND	15								
Diesel Range Or	,										
Diesel Range Or Motor Oil Range Surr: DNOP	,	ND 6.8	50	10.00		68.3	51.1	141			

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	EOG										
Project:	Cooper A	AHH 1 Bat	tery								
Sample ID: Ics-6	68229	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: LCS	S	Batch	n ID: 68	229	F	unNo: 8	8959				
Prep Date: 6/2	0/2022	Analysis D	ate: 6/	22/2022	S	eqNo: 3	158989	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	24	5.0	25.00	0	96.5	72.3	137			
Surr: BFB		1900		1000		189	37.7	212			
Sample ID: mb-	68229	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: PBS	;	Batch	n ID: 68	229	F	tunNo: 8	8959				
Prep Date: 6/2	0/2022	Analysis D	ate: 6/	22/2022	S	eqNo: 3	158990	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	ND	5.0								
Surr: BFB		880		1000		87.9	37.7	212			

Qualifiers:

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

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27-Jun-22

WO#:

EOG

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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	27-Jı

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Project: Cooper	r AHH 1 Bat	terv								
		-								
Sample ID: Ics-68229	Sampl	Type: LC	5	les	Code: El	PA Method	8021B: Vola	lles		
Client ID: LCSS	Batc	h ID: 68	229	F	unNo: 8	8959				
Prep Date: 6/20/2022	Analysis E	Date: 6/	22/2022	S	eqNo: 3	159043	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.3	70	130			
Sample ID: mb-68229	SampT	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 68	229	F	lunNo: 8	8959				
Prep Date: 6/20/2022	Analysis E	Date: 6/	22/2022	S	eqNo: 3	159044	Units: mg/H	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: 4-Bromofluorobenzene	0.85		1.000		85.3	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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 I Website: www.hall	4901 Hawkins N juerque, NM 8710 FAX: 505-345-410	E 9 S a	ample Log-In Check List
Client Name: EOG	Work Order Number:	2206997		RcptNo: 1
Received By: Isaiah Ortiz	6/18/2022 9:50:00 AM		I-	04
Completed By: Isaiah Ortiz	6/18/2022 11:56:25 AM		I-	0×
Reviewed By: KPG 6.20.2	22			
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No [Not Present
2. How was the sample delivered?		Courier		
<u>Log In</u>				
3. Was an attempt made to cool the samples?	1	Yes 🗹	No 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗌) NA 🗆
5. Sample(s) in proper container(s)?	1	Yes 🗹	No 🗌]
6. Sufficient sample volume for indicated test(s)?		res 🔽	No 🗆	1
7. Are samples (except VOA and ONG) properly p	reserved?	res 🗹	No 🗆	1
8. Was preservative added to bottles?	1	res 🗌	No 🔽	1 NA 🗆
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	/es 🗌	No 🗌	NA 🗹
10. Were any sample containers received broken?		Yes 🗆	No 🔽	# of preserved
11. Does paperwork match bottle labels?	,	res 🔽	No 🗌	bottles checked
(Note discrepancies on chain of custody)				(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody?	res 🔽	No 🗌	Adjusted?
13. Is it clear what analyses were requested?		res 🗹	No 🗌	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	1	res 🗹	No 🗌	Checked by: JN 6 20 23
Special Handling (if applicable)				/
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:			
By Whom:		eMail 🗌 Phor	ne 🗌 Fa	ax 🗌 In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal	Intact Seal No Se	al Date Sid	gned By	

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	NOV 100 Mikitaic Wier	ate: Time: Relinquished by:				10:20 1 8522-28 1-	10:15 RS22.27 1	10-10 01-02-26 1		10.00 352-24 13	4:40 3522-18 1	1 9:35 B 522-17	6-15 9:30 Soil BS22-16	Date Time Matrix Sample Name		EDD (Type)	Accreditation: Accreditation: Accreditation: Accompliance Other		QA/QC Package:	email or Fax#:	Phone #:	Mailing Address:	, , ,	ent: Env	of 602 Chain-of-Custody Record
Received by:	MANNA	Received by:				, ,	17'	(T)	14	· f1	1 151	('7	17' 402	Container Type and #	Cooler Temp(including CF):	# of Coolers:	Sampler: K .	10	Mani	Project Manager:	Project #:	Cooper	Project Name		Turn-Around Time:
Via: 0	www	Via:				1					-		ice	Preservative Type	including CF): 5		W jul	s - ept	Manita Dino	ger:	Project# 22E-25123-04	1		S	2
blie Time	W/17/22 800	Date Time				800	L00	006	005	004	003	002	001	HEAL NO.	4 ±0 (°c)		□ No				04	AHH #1 Battery		Dey	
0		Remarks:				-		-				-	7	BTEX/		3E	/ TM	в's (8	3021)				П	
		arks:	+	+	-	-		~			-		2	TPH:801	1.1.1		1.1.1.1			C)	Tel.	490			
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r t	Mon ica													RCRA 8							975 A	www.hallenvironmental.com	ANALYSIS	F	
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Ψ.	3																				Fax 505-345-4107 ysis Request	environmental.com Albuquerque, NM 87109	LABORATORY	ENVIRONMENTAL	

Released to Imaging: 2/24/2023 2:37:49 PM



June 30, 2022

Monica Peppin EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Cooper AHH 1 Battery

OrderNo.: 2206B32

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 18 sample(s) on 6/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

Analytical Report Lab Order 2206B32

Hall Environmental Anal	lysis Laboratory,	Inc.
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Cooper AHH 1 Battery

2206B32-001

Date Reported: 6/30/2022

Client Sample ID: BS22-29 17' Collection Date: 6/17/2022 9:15:00 AM Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	190	60	mg/Kg	20	6/25/2022 4:18:43 AM	68356
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 1:04:04 PM	68331
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/24/2022 1:04:04 PM	68331
Surr: DNOP	87.4	51.1-141	%Rec	1	6/24/2022 1:04:04 PM	68331
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/24/2022 9:40:00 AM	68296
Surr: BFB	90.1	37.7-212	%Rec	1	6/24/2022 9:40:00 AM	68296
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	6/24/2022 9:40:00 AM	68296
Toluene	ND	0.050	mg/Kg	1	6/24/2022 9:40:00 AM	68296
Ethylbenzene	ND	0.050	mg/Kg	1	6/24/2022 9:40:00 AM	68296
Xylenes, Total	ND	0.099	mg/Kg	1	6/24/2022 9:40:00 AM	68296
Surr: 4-Bromofluorobenzene	87.4	70-130	%Rec	1	6/24/2022 9:40:00 AM	68296

Matrix: SOIL

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

Qualifiers: *

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

Page 1 of 22

68296

68296

68296

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

CLIENT: EOGProject:Cooper AHH 1 BatteryLab ID:2206B32-002	Client Sample ID: BS22-30 17' Collection Date: 6/17/2022 9:20:00 AM Matrix: SOIL Received Date: 6/22/2022 7:20:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: NAI			
Chloride	620	60	mg/Kg	20	6/25/2022 4:31:04 AM	68356			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	ED			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 1:36:01 PM	68331			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/24/2022 1:36:01 PM	68331			
Surr: DNOP	96.4	51.1-141	%Rec	1	6/24/2022 1:36:01 PM	68331			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	BRM			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/24/2022 10:40:00 AM	68296			
Surr: BFB	87.9	37.7-212	%Rec	1	6/24/2022 10:40:00 AM	68296			
EPA METHOD 8021B: VOLATILES					Analyst	BRM			
Benzene	ND	0.023	mg/Kg	1	6/24/2022 10:40:00 AM	68296			

Benzene ND 0.023 6/24/2022 10:40:00 AM mg/Kg 1 Toluene ND 0.047 mg/Kg 1 6/24/2022 10:40:00 AM Ethylbenzene ND 0.047 mg/Kg 1 6/24/2022 10:40:00 AM Xylenes, Total ND 0.094 mg/Kg 1 6/24/2022 10:40:00 AM Surr: 4-Bromofluorobenzene 84.7 70-130 %Rec 1 6/24/2022 10:40:00 AM 68296

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 2 of 22

Project:

Lab ID:

Analytical Report Lab Order 2206B32

Hall Environmental Analysis Laboratory, Inc.

Cooper AHH 1 Battery

2206B32-003

Date Reported: 6/30/2022

Client Sample ID: BS22-31 17' Collection Date: 6/17/2022 9:25:00 AM Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	730	60	mg/Kg	20	6/25/2022 4:43:25 AM	68356
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	6/24/2022 1:46:42 PM	68331
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/24/2022 1:46:42 PM	68331
Surr: DNOP	97.2	51.1-141	%Rec	1	6/24/2022 1:46:42 PM	68331
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 11:39:00 AM	68296
Surr: BFB	89.3	37.7-212	%Rec	1	6/24/2022 11:39:00 AM	68296
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	6/24/2022 11:39:00 AM	68296
Toluene	ND	0.049	mg/Kg	1	6/24/2022 11:39:00 AM	68296
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 11:39:00 AM	68296
Xylenes, Total	ND	0.098	mg/Kg	1	6/24/2022 11:39:00 AM	68296
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	6/24/2022 11:39:00 AM	68296

Matrix: SOIL

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

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

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Project:

Analytical Report Lab Order 2206B32

Hall Environmental Anal	lysis Laboratory,	Inc.
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Cooper AHH 1 Battery

Date Reported: 6/30/2022

Client Sample ID: BS22-32 17' Collection Date: 6/17/2022 9:30:00 AM Received Date: 6/22/2022 7:20:00 AM

Lab ID: 2206B32-004	Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM						
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: NAI		
Chloride	600	60	mg/Kg	20	6/25/2022 4:55:46 AM	68356		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: ED		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/24/2022 3:26:28 PM	68331		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/24/2022 3:26:28 PM	68331		
Surr: DNOP	101	51.1-141	%Rec	1	6/24/2022 3:26:28 PM	68331		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	BRM		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 11:58:00 AM	68296		
Surr: BFB	88.8	37.7-212	%Rec	1	6/24/2022 11:58:00 AM	68296		
EPA METHOD 8021B: VOLATILES					Analyst	BRM		
Benzene	ND	0.025	mg/Kg	1	6/24/2022 11:58:00 AM	68296		
Toluene	ND	0.049	mg/Kg	1	6/24/2022 11:58:00 AM	68296		
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 11:58:00 AM	68296		
Xylenes, Total	ND	0.098	mg/Kg	1	6/24/2022 11:58:00 AM	68296		
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	6/24/2022 11:58:00 AM	68296		

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

Qualifiers:

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

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Project:

Analytical Report Lab Order 2206B32

Hall Environmental A	nalysis La	aboratory,	Inc.
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Cooper AHH 1 Battery

Lab Order 2206B32 Date Reported: 6/30/2022

Client Sample ID: BS22-33 17' Collection Date: 6/17/2022 9:35:00 AM Received Date: 6/22/2022 7:20:00 AM

Lab ID: 2206B32-005	Matrix: SOIL]	22/2022 7:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	84	60	mg/Kg	20	6/25/2022 5:08:07 AM	68356
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 3:37:08 PM	68331
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/24/2022 3:37:08 PM	68331
Surr: DNOP	93.1	51.1-141	%Rec	1	6/24/2022 3:37:08 PM	68331
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 12:18:00 PM	68296
Surr: BFB	88.1	37.7-212	%Rec	1	6/24/2022 12:18:00 PM	68296
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	6/24/2022 12:18:00 PM	68296
Toluene	ND	0.049	mg/Kg	1	6/24/2022 12:18:00 PM	68296
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 12:18:00 PM	68296
Xylenes, Total	ND	0.098	mg/Kg	1	6/24/2022 12:18:00 PM	68296
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	6/24/2022 12:18:00 PM	68296

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

Qualifiers: *

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

6/24/2022 12:38:00 PM

6/24/2022 12:38:00 PM

6/24/2022 12:38:00 PM

6/24/2022 12:38:00 PM 68296

68296

68296

68296

CLIENT: EOG Project: Cooper AHH 1 Battery Lab ID: 2206B32-006	Matrix: SOIL	Client Sample ID: BS22-34 17' Collection Date: 6/17/2022 9:40:00 AM Received Date: 6/22/2022 7:20:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	77	59	mg/Kg	20	6/25/2022 5:20:28 AM	68356
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	ED:
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	6/24/2022 3:47:54 PM	68331
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	6/24/2022 3:47:54 PM	68331
Surr: DNOP	101	51.1-141	%Rec	1	6/24/2022 3:47:54 PM	68331
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 12:38:00 PM	68296
Surr: BFB	89.9	37.7-212	%Rec	1	6/24/2022 12:38:00 PM	68296
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	6/24/2022 12:38:00 PM	68296

ND

ND

ND

86.4

0.049

0.049

0.098

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

Page 6 of 22

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

6/24/2022 12:58:00 PM

6/24/2022 12:58:00 PM

6/24/2022 12:58:00 PM

6/24/2022 12:58:00 PM

6/24/2022 12:58:00 PM 68296

68296

68296

68296

68296

CLIENT	EOG		Client Sample ID: BS22-35 17'							
Project:	Cooper AHH 1 Battery	Collection Date: 6/17/2022 9:45:00 AM								
Lab ID:	2206B32-007	Matrix: SOIL	SOIL Received Date: 6/22/2022 7:20:00 AM							
Analyses	3	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT			
Chloride		ND	60	mg/Kg	20	6/27/2022 12:38:57 PM	68377			
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	ED:			
Diesel R	ange Organics (DRO)	ND	13	mg/Kg	1	6/24/2022 3:58:42 PM	68331			
Motor O	il Range Organics (MRO)	ND	45	mg/Kg	1	6/24/2022 3:58:42 PM	68331			
Surr:	DNOP	114	51.1-141	%Rec	1	6/24/2022 3:58:42 PM	68331			
EPA ME	THOD 8015D: GASOLINE RAI	NGE				Analyst	BRM			
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	6/24/2022 12:58:00 PM	68296			
Surr:	BFB	89.2	37.7-212	%Rec	1	6/24/2022 12:58:00 PM	68296			
EPA ME	THOD 8021B: VOLATILES					Analyst	BRM			

ND

ND

ND

ND

85.9

0.024

0.047

0.047

0.094

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

* **Qualifiers:**

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

6/24/2022 1:18:00 PM

68296

CLIENT: EO	G		Client Sample ID: BS22-36 17'							
Project: Cod	oper AHH 1 Battery		Collection Date: 6/17/2022 9:50:00 AM							
Lab ID: 220)6B32-008	Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHO	D 300.0: ANIONS					Analys	t: JMT			
Chloride		210	59	mg/Kg	20	6/27/2022 12:51:22 PM	68377			
EPA METHO	D 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: ED			
Diesel Range	Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 4:09:31 PM	68331			
Motor Oil Rang	ge Organics (MRO)	ND	45	mg/Kg	1	6/24/2022 4:09:31 PM	68331			
Surr: DNOF	0	101	51.1-141	%Rec	1	6/24/2022 4:09:31 PM	68331			
EPA METHO	D 8015D: GASOLINE RA	NGE				Analys	t: BRM			
Gasoline Rang	ge Organics (GRO)	ND	4.6	mg/Kg	1	6/24/2022 1:18:00 PM	68296			
Surr: BFB		90.8	37.7-212	%Rec	1	6/24/2022 1:18:00 PM	68296			
EPA METHO	D 8021B: VOLATILES					Analys	t: BRM			
Benzene		ND	0.023	mg/Kg	1	6/24/2022 1:18:00 PM	68296			
Toluene		ND	0.046	mg/Kg	1	6/24/2022 1:18:00 PM	68296			
Ethylbenzene		ND	0.046	mg/Kg	1	6/24/2022 1:18:00 PM	68296			
Xylenes, Total		ND	0.093	mg/Kg	1	6/24/2022 1:18:00 PM	68296			

88.4

70-130

%Rec

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

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Project:

Analytical Report Lab Order 2206B32

Hall Environmental A	nalysis La	aboratory,	Inc.
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Cooper AHH 1 Battery

Date Reported: 6/30/2022

Client Sample ID: BS22-37 17' Collection Date: 6/17/2022 9:55:00 AM Received Date: 6/22/2022 7:20:00 AM

Lab ID: 2206B32-009	Matrix: SOIL]	22/2022 7:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	280	61	mg/Kg	20	6/27/2022 1:03:46 PM	68377
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	ED:
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/29/2022 2:48:37 PM	68331
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/29/2022 2:48:37 PM	68331
Surr: DNOP	133	51.1-141	%Rec	1	6/29/2022 2:48:37 PM	68331
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/24/2022 1:38:00 PM	68296
Surr: BFB	91.7	37.7-212	%Rec	1	6/24/2022 1:38:00 PM	68296
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	6/24/2022 1:38:00 PM	68296
Toluene	ND	0.048	mg/Kg	1	6/24/2022 1:38:00 PM	68296
Ethylbenzene	ND	0.048	mg/Kg	1	6/24/2022 1:38:00 PM	68296
Xylenes, Total	ND	0.097	mg/Kg	1	6/24/2022 1:38:00 PM	68296
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	6/24/2022 1:38:00 PM	68296

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

CLIENT: EOG	Client Sample ID: BS22-38 17'						
Project: Cooper AHH 1 Battery		C	Collection Date	e: 6/1	7/2022 10:00:00 AM		
Lab ID: 2206B32-010	Matrix: SOIL		Received Dat	e: 6/2	22/2022 7:20:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	110	60	mg/Kg	20	6/27/2022 1:16:11 PM	68377	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/24/2022 4:31:17 PM	68331	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/24/2022 4:31:17 PM	68331	
Surr: DNOP	99.1	51.1-141	%Rec	1	6/24/2022 4:31:17 PM	68331	
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/24/2022 1:57:00 PM	68296	
Surr: BFB	87.4	37.7-212	%Rec	1	6/24/2022 1:57:00 PM	68296	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.023	mg/Kg	1	6/24/2022 1:57:00 PM	68296	
Toluene	ND	0.046	mg/Kg	1	6/24/2022 1:57:00 PM	68296	
Ethylbenzene	ND	0.046	mg/Kg	1	6/24/2022 1:57:00 PM	68296	
Xylenes, Total	ND	0.092	mg/Kg	1	6/24/2022 1:57:00 PM	68296	
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	6/24/2022 1:57:00 PM	68296	

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

Qualifiers:

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

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

6/24/2022 4:42:14 PM

6/24/2022 4:42:14 PM

6/24/2022 4:42:14 PM

6/24/2022 2:37:00 PM

68331

68331

68331

68296

68296

68296

68296

68296

68296

68296

Analyst: BRM

Analyst: BRM

CLIENT:	EOG	Client Sample ID: BS22-39 17'						
Project:	Cooper AHH 1 Battery	Collection Date: 6/17/2022 10:05:00 AM						
Lab ID:	2206B32-011	Matrix: SOIL Received Date: 6/22/2022 7:20:00 AM						
Analyses	5	Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analys	t: JMT	
Chloride		ND	60	mg/Kg	20	6/27/2022 1:53:24 PM	68377	
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analys	t: ED	

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

14

46

4.7

51.1-141

37.7-212

0.024

0.047

0.047

0.095

70-130

ND

ND

99.0

ND

89.8

ND

ND

ND

ND

85.7

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

Qualifiers:

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Date Reported: 6/30/2022

CLIENT: EOG		Clie	ent Sample II): BS	522-40 17'	
Project: Cooper AHH 1 Battery	Collection Date: 6/17/2022 10:10:00 AM					
Lab ID: 2206B32-012	Matrix: SOIL	1	Received Date	e: 6/2	22/2022 7:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	230	60	mg/Kg	20	6/27/2022 2:05:48 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 4:53:10 PM	68331
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/24/2022 4:53:10 PM	68331
Surr: DNOP	94.0	51.1-141	%Rec	1	6/24/2022 4:53:10 PM	68331
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/24/2022 2:57:00 PM	68296
Surr: BFB	89.2	37.7-212	%Rec	1	6/24/2022 2:57:00 PM	68296
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	6/24/2022 2:57:00 PM	68296
Toluene	ND	0.048	mg/Kg	1	6/24/2022 2:57:00 PM	68296
Ethylbenzene	ND	0.048	mg/Kg	1	6/24/2022 2:57:00 PM	68296
Xylenes, Total	ND	0.096	mg/Kg	1	6/24/2022 2:57:00 PM	68296
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	1	6/24/2022 2:57:00 PM	68296

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

Qualifiers:

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

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Project: Cooper AHH 1 Battery

CLIENT: EOG

Analytical Report

Date Reported: 6/30/2022

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Client Sample ID: BS22-41 17' Collection Date: 6/17/2022 10:15:00 AM

Lab ID: 2206B32-013	Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM					
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	160	60	mg/Kg	20	6/27/2022 2:18:12 PM	68377	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	6/24/2022 5:04:09 PM	68331	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/24/2022 5:04:09 PM	68331	
Surr: DNOP	98.4	51.1-141	%Rec	1	6/24/2022 5:04:09 PM	68331	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 3:17:00 PM	68296	
Surr: BFB	87.6	37.7-212	%Rec	1	6/24/2022 3:17:00 PM	68296	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	6/24/2022 3:17:00 PM	68296	
Toluene	ND	0.049	mg/Kg	1	6/24/2022 3:17:00 PM	68296	
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 3:17:00 PM	68296	
Xylenes, Total	ND	0.097	mg/Kg	1	6/24/2022 3:17:00 PM	68296	
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	6/24/2022 3:17:00 PM	68296	

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

Qualifiers: * Va

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

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CLIENT: EOG

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2206B32** Date Reported: **6/30/2022**

Client Sample ID: BS22-42 17'

Project:	Cooper AHH 1 Battery	Collection Date: 6/17/2022 10:20:00 AM Matrix: SOIL Received Date: 6/22/2022 7:20:00 AM					
Lab ID:	2206B32-014	Matrix: SOIL		Received Dat	e: 0/2	2/2022 7:20:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: JMT
Chloride		160	61	mg/Kg	20	6/27/2022 2:30:37 PM	68377
EPA ME	THOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: ED
Diesel R	ange Organics (DRO)	ND	15	mg/Kg	1	6/24/2022 5:15:03 PM	68331
Motor Oi	I Range Organics (MRO)	ND	50	mg/Kg	1	6/24/2022 5:15:03 PM	68331
Surr: I	ONOP	98.9	51.1-141	%Rec	1	6/24/2022 5:15:03 PM	68331
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analys	t: BRM
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 3:36:00 PM	68296
Surr: E	3FB	87.5	37.7-212	%Rec	1	6/24/2022 3:36:00 PM	68296
EPA ME	THOD 8021B: VOLATILES					Analys	t: BRM
Benzene		ND	0.025	mg/Kg	1	6/24/2022 3:36:00 PM	68296
Toluene		ND	0.049	mg/Kg	1	6/24/2022 3:36:00 PM	68296
Ethylbenzene		ND	0.049	mg/Kg	1	6/24/2022 3:36:00 PM	68296
Xylenes,	Total	ND	0.098	mg/Kg	1	6/24/2022 3:36:00 PM	68296
Surr: 4	4-Bromofluorobenzene	85.9	70-130	%Rec	1	6/24/2022 3:36:00 PM	68296

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

Qualifiers: *

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

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Project: Cooper AHH 1 Battery

CLIENT: EOG

Analytical Report

Date Reported: 6/30/2022

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Client Sample ID: BS22-43 17'	
Collection Date: 6/17/2022 10:25:00 AM	

Lab ID: 2206B32-015	Matrix: SOIL	R	eceived Dat	e: 6/2	22/2022 7:20:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	71	60	mg/Kg	20	6/27/2022 2:43:01 PM	68377
EPA METHOD 8015M/D: DIESEL RANG	BE ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 5:25:56 PM	68331
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/24/2022 5:25:56 PM	68331
Surr: DNOP	93.7	51.1-141	%Rec	1	6/24/2022 5:25:56 PM	68331
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/24/2022 3:56:00 PM	68296
Surr: BFB	86.4	37.7-212	%Rec	1	6/24/2022 3:56:00 PM	68296
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	6/24/2022 3:56:00 PM	68296
Toluene	ND	0.048	mg/Kg	1	6/24/2022 3:56:00 PM	68296
Ethylbenzene	ND	0.048	mg/Kg	1	6/24/2022 3:56:00 PM	68296
Xylenes, Total	ND	0.095	mg/Kg	1	6/24/2022 3:56:00 PM	68296
Surr: 4-Bromofluorobenzene	86.1	70-130	%Rec	1	6/24/2022 3:56:00 PM	68296

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

Qualifiers:

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

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CLIENT: EOG

Analytical Report Lab Order 2206B32

Date Reported: 6/30/2022 Client Sample ID: BS22-45 17'

			-	I I			
Project: Cooper AHH 1 Battery Lab ID: 2206B32-016 Analyses			(Collection Dat	e: 6/	17/2022 10:30:00 AM	
		Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM				
		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: JMT
Chloride	9	250	60	mg/Kg	20	6/27/2022 2:55:25 PM	68377
EPA ME	THOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	t: ED
Diesel Range Organics (DRO)		ND	13	mg/Kg	1	6/24/2022 5:36:49 PM	68331
Motor Oil Range Organics (MRO)		ND	44	mg/Kg	1	6/24/2022 5:36:49 PM	68331
Surr: DNOP		94.1	51.1-141	%Rec	1	6/24/2022 5:36:49 PM	68331
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analys	t: BRM
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	6/24/2022 4:16:00 PM	68296
Surr:	BFB	88.1	37.7-212	%Rec	1	6/24/2022 4:16:00 PM	68296
EPA ME	THOD 8021B: VOLATILES					Analys	t: BRM
Benzene	e	ND	0.024	mg/Kg	1	6/24/2022 4:16:00 PM	68296
Toluene		ND	0.047	mg/Kg	1	6/24/2022 4:16:00 PM	68296
Ethylbenzene		ND	0.047	mg/Kg	1	6/24/2022 4:16:00 PM	68296
Xylenes	, Total	ND	0.094	mg/Kg	1	6/24/2022 4:16:00 PM	68296
Surr:	4-Bromofluorobenzene	86.3	70-130	%Rec	1	6/24/2022 4:16:00 PM	68296

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

Qualifiers:

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

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Project: Cooper AHH 1 Battery

CLIENT: EOG

Analytical Report

Date Reported: 6/30/2022

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2206B32

Client Sample ID: BS22-46 17' Collection Date: 6/17/2022 10:35:00 AM

Lab ID: 2206B32-017	Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	120	60	mg/Kg	20	6/27/2022 3:07:49 PM	68377	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: ED	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	6/24/2022 5:47:48 PM	68331	
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/24/2022 5:47:48 PM	68331	
Surr: DNOP	93.6	51.1-141	%Rec	1	6/24/2022 5:47:48 PM	68331	
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/24/2022 4:36:00 PM	68296	
Surr: BFB	86.9	37.7-212	%Rec	1	6/24/2022 4:36:00 PM	68296	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	6/24/2022 4:36:00 PM	68296	
Toluene	ND	0.048	mg/Kg	1	6/24/2022 4:36:00 PM	68296	
Ethylbenzene	ND	0.048	mg/Kg	1	6/24/2022 4:36:00 PM	68296	
Xylenes, Total	ND	0.096	mg/Kg	1	6/24/2022 4:36:00 PM	68296	
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	6/24/2022 4:36:00 PM	68296	

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

Qualifiers: *

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

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Project: Cooper AHH 1 Battery

CLIENT: EOG

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2206B32** Date Reported: **6/30/2022**

Client Sample ID: BS22-47 17' Collection Date: 6/17/2022 10:40:00 AM

Lab ID: 2206B32-018	Matrix: SOIL	Received Date: 6/22/2022 7:20:00 AM					
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	61	mg/Kg	20	6/27/2022 3:20:13 PM	68377	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	6/24/2022 5:58:49 PM	68331	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/24/2022 5:58:49 PM	68331	
Surr: DNOP	92.9	51.1-141	%Rec	1	6/24/2022 5:58:49 PM	68331	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/24/2022 4:56:00 PM	68296	
Surr: BFB	86.3	37.7-212	%Rec	1	6/24/2022 4:56:00 PM	68296	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	6/24/2022 4:56:00 PM	68296	
Toluene	ND	0.049	mg/Kg	1	6/24/2022 4:56:00 PM	68296	
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 4:56:00 PM	68296	
Xylenes, Total	ND	0.099	mg/Kg	1	6/24/2022 4:56:00 PM	68296	
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	6/24/2022 4:56:00 PM	68296	

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

Qualifiers: *

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

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Page	<i>404</i>	of	<i>602</i>
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WO#:	220	6B32
	20 T	

30-Jun-22

Client: Project:	EOG Cooper A	AHH 1 Battery	
	L	•	
Sample ID:		SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68356	RunNo: 89033
Prep Date:	6/24/2022	Analysis Date: 6/24/2022	SeqNo: 3162206 Units: mg/Kg
Analyte		Result PQL SPK v	alue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68356	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68356	RunNo: 89033
Prep Date:	6/24/2022	Analysis Date: 6/24/2022	SeqNo: 3162207 Units: mg/Kg
Analyte		Result PQL SPK v	alue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 1	5.00 0 94.2 90 110
Sample ID:	MB-68377	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68377	RunNo: 89045
Prep Date:	6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164356 Units: mg/Kg
Analyte		Result PQL SPK v	alue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68377	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68377	RunNo: 89045
Prep Date:	6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164357 Units: mg/Kg
Analyte		Result PQL SPK v	alue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

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

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Client:EOGProject:Cooper	AHH 1 Bat	tery								
Sample ID: LCS-68331	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batc	h ID: 683	331	F	RunNo: 8 9	9016				
Prep Date: 6/23/2022	Analysis [Date: 6/2	24/2022	S	SeqNo: 31	61315	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	50.00	0	121	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			
Sample ID: MB-68331	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batc	h ID: 683	331	F	RunNo: 8 9	9016				
Prep Date: 6/23/2022	Analysis [Date: 6/2	24/2022	5	SeqNo: 31	61317	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.3	51.1	141			

Qualifiers:

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

WO#: 2206B32 30-Jun-22

Client:EOGProject:Cooper	AHH 1 Bat	tery								
Sample ID: Ics-68296	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: LCSS	Batc	h ID: 68	296	F	RunNo: 8 9	9028				
Prep Date: 6/22/2022	Analysis I	Date: 6/	24/2022	S	SeqNo: 3'	161636	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			
Sample ID: mb-68296	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: PBS	Batc	h ID: 682	296	F	RunNo: 8 9	9028				
Prep Date: 6/22/2022	Analysis I	Date: 6/	24/2022	5	SeqNo: 3	161637	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	870		1000		86.6	37.7	212			

Qualifiers:

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

Page 21 of 22

2206B32

30-Jun-22

WO#:

0.95

0.050

WO#:	2206B32
	20 7 22

30-Jun-22

Qual

Client: Project:	EOG	AHH 1 Batte	ərv							
Sample ID: Ics	1		vpe: LC	s	Tes	tCode: FI	PA Method	8021B: Volat	iles	
	SS	•	ID: 682	-		RunNo: 8		00210. 00101	lico	
Prep Date: 6	/22/2022	Analysis D	ate: 6/2	24/2022	5	SeqNo: 3'	161708	Units: mg/k	٢g	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene		0.94	0.025	1.000	0	94.3	80	120		

1.000

Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			
Sample ID: mb-68296	Samp	Гуре: МЕ	BLK	Tes	stCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Batc	h ID: 682	296	F	RunNo: 8 9	9028				
Prep Date: 6/22/2022	Analysis [Date: 6/ 2	24/2022	:	SeqNo: 3	161709	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

0

94.8

80

120

Qualifiers:

Toluene

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

Page 22 of 22

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environm TEL: 505-345- Website: ww	49 Albuquero 3975 FAX:	01 Hawk que, NM 505-34	sins NE 87109 Sa 5-4107	mple Log-In Cl	neck List
Client Name: EOG	Work Order Nur	nber: 220	6B32		RcptNo:	1
Received By: Cheyenne Cason	6/22/2022 7:20:00	AM		chul		
Completed By: Cheyenne Cason	6/22/2022 8:46:11	АМ		Chul Chul		
Reviewed By: JA6/22/22						
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
Log In						
3. Was an attempt made to cool the samples?		Yes	V	No 🗌		
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes		No 🗌		
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6. Sufficient sample volume for indicated test(s)?	?	Yes	~	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes	~	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹		
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🔽	
10. Were any sample containers received broken	?	Yes		No 🔽		
11 -			2	- 18 d.	# of preserved bottles checked	/
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No 🗌	for pH:	1
12. Are matrices correctly identified on Chain of C	ustody?	Yes	-	No 🗌	Adjusted?	12 unless noted)
13. Is it clear what analyses were requested?	uotou).	Yes			/	
14. Were all holding times able to be met?		Yes			Checked by:	A 6.72-22
(If no, notify customer for authorization.)		103			chick by.	1. ouch
Special Handling (if applicable)					0	
15. Was client notified of all discrepancies with th	is order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date					
By Whom:	Via:	eMa	il 🗖	Phone T Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
	l Intact Seal No Present	Seal Da	ite	Signed By		

Page 1 of 1

eive 187 807	prte:/	OCD	Pate:	/30/.	2022		49:4							-	t1-9	Date		EDD (Type)	O NELAC	Accreditation:	□ Standard	QA/QC	email or Fax#:	Phone #:		Mailing	Pag	e 40 lient:	of
(no	Time:		Time:	10:10	10:05	10:00	9:55	9:50	9:45	9:40	9:35	9:30	9:25	9:20	9:15	Time		(Type)	AC	tation:	dard	QA/QC Package:	r Fax#:	#		Mailing Address:	1644	FOU	hain-
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One can	Received by:	ammi	Received by:											-	4 07	Container Type and #	Cooler Temp	# of Coolers:	On Ice:	Sampler:	Monica		Project Manager:	22E-	Project #:	Cooper .	Project Name:	Q Standard	Turn-Around Time:
5	Via:	min	Via:	-											ice	Preservative Type	Cooler Temp(including CF): 50	1	129 Yes	1. Wier	a Pappin		iger:	00123-04		AHH #1		Rush_	lime: 5-day
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Chine by	Glumming	Received by:						1 802	208	2.0 %.		-	402	Type and #	Container	Cooler Tem	# of Coolers:	On Ice:	Sampler:) Monica	Joot man	Project Manager	JJE-	Project #:	Looper	Project Name:	∯ Standard	Turn-Aroun
	Ano.	Via:						-		-		-	ice	Туре	Preservative	Cooler Temp(including CF): 5.0+0.1= 5.1	-	⊠ Yes	M. Weer	ca Peppin	uger.	aner:	22E-00123-04		Cooper AHH#1 Battery	ne:	d KRush_	Turn-Around Time: $S - D_{CN}$
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July 18, 2022

Monica Peppin Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Cooper Excavation

OrderNo.: 2207184

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 45 sample(s) on 7/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-01 0-4 **Project: Cooper Excavation** Collection Date: 7/5/2022 10:15:00 AM Lab ID: 2207184-001 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/8/2022 6:00:47 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 7/8/2022 6:00:47 PM Surr: DNOP 94.5 51.1-141 %Rec 1 7/8/2022 6:00:47 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.7 7/9/2022 1:26:00 AM mg/Kg 1 Surr: BFB 87.7 37.7-212 %Rec 1 7/9/2022 1:26:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 7/9/2022 1:26:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/9/2022 1:26:00 AM Ethylbenzene ND 0.047 mg/Kg 1 7/9/2022 1:26:00 AM Xylenes, Total ND 0.093 mg/Kg 1 7/9/2022 1:26:00 AM

Surr: 4-Bromofluorobenzene 82.7 70-130 %Rec 1 7/9/2022 1:26:00 AM **EPA METHOD 300.0: ANIONS** mg/Kg Chloride 7/12/2022 10:23:02 PM ND 60 20

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

Page 1 of 56

Analyst: NAI

*

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-01 4-8 Collection Date: 7/5/2022 10:20:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-002	Matrix: SOIL	Recei	ived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/8/2022 6:15:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/8/2022 6:15:24 PM
Surr: DNOP	103	51.1-141	%Rec	1	7/8/2022 6:15:24 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/9/2022 1:46:00 AM
Surr: BFB	88.2	37.7-212	%Rec	1	7/9/2022 1:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/9/2022 1:46:00 AM
Toluene	ND	0.049	mg/Kg	1	7/9/2022 1:46:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/9/2022 1:46:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/9/2022 1:46:00 AM
Surr: 4-Bromofluorobenzene	82.4	70-130	%Rec	1	7/9/2022 1:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	73	60	mg/Kg	20	7/12/2022 10:35:27 PM

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-01 8-12 Collection Date: 7/5/2022 10:25:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-003	Matrix: SOIL	Recei	ived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/8/2022 6:29:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/8/2022 6:29:54 PM
Surr: DNOP	85.5	51.1-141	%Rec	1	7/8/2022 6:29:54 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/9/2022 2:06:00 AM
Surr: BFB	90.4	37.7-212	%Rec	1	7/9/2022 2:06:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/9/2022 2:06:00 AM
Toluene	ND	0.048	mg/Kg	1	7/9/2022 2:06:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/9/2022 2:06:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	7/9/2022 2:06:00 AM
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	7/9/2022 2:06:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	72	60	mg/Kg	20	7/12/2022 10:47:51 PM

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

Qualifiers:

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

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

Page 3 of 56

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-01 12-16 Collection Date: 7/5/2022 10:30:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-004	Matrix: SOIL	Recei	ved Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/8/2022 6:44:13 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/8/2022 6:44:13 PM
Surr: DNOP	108	51.1-141	%Rec	1	7/8/2022 6:44:13 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/9/2022 2:25:00 AM
Surr: BFB	92.2	37.7-212	%Rec	1	7/9/2022 2:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/9/2022 2:25:00 AM
Toluene	ND	0.048	mg/Kg	1	7/9/2022 2:25:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/9/2022 2:25:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/9/2022 2:25:00 AM
Surr: 4-Bromofluorobenzene	86.1	70-130	%Rec	1	7/9/2022 2:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	7/12/2022 11:00:15 PM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-02 0-4 Collection Date: 7/5/2022 10:35:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-005	Matrix: SOIL Received Date: 7/7/2022 7			22 7:45:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/8/2022 6:58:26 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/8/2022 6:58:26 PM
Surr: DNOP	98.6	51.1-141	%Rec	1	7/8/2022 6:58:26 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/9/2022 2:45:00 AM
Surr: BFB	89.6	37.7-212	%Rec	1	7/9/2022 2:45:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/9/2022 2:45:00 AM
Toluene	ND	0.049	mg/Kg	1	7/9/2022 2:45:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/9/2022 2:45:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/9/2022 2:45:00 AM
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	7/9/2022 2:45:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	7/12/2022 11:12:40 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-02 4-8 Collection Date: 7/5/2022 10:40:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-006	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/11/2022 9:52:20 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/11/2022 9:52:20 PM	
Surr: DNOP	81.9	51.1-141	%Rec	1	7/11/2022 9:52:20 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/9/2022 3:05:00 AM	
Surr: BFB	92.6	37.7-212	%Rec	1	7/9/2022 3:05:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	7/9/2022 3:05:00 AM	
Toluene	ND	0.048	mg/Kg	1	7/9/2022 3:05:00 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	7/9/2022 3:05:00 AM	
Xylenes, Total	ND	0.095	mg/Kg	1	7/9/2022 3:05:00 AM	
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	7/9/2022 3:05:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	7/12/2022 11:49:53 PM	

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

Qualifiers:

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

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

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-02 8-12 **Project: Cooper Excavation** Collection Date: 7/5/2022 10:45:00 AM Lab ID: 2207184-007 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED 7/11/2022 10:39:02 PM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) 7/11/2022 10:39:02 PM ND 49 mg/Kg 1 Surr: DNOP 80.4 51.1-141 %Rec 1 7/11/2022 10:39:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 9:27:00 AM 4.9 mg/Kg 1 Surr: BFB 83.3 37.7-212 %Rec 1 7/11/2022 9:27:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 9:27:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 9:27:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 9:27:00 AM Xylenes, Total ND 0.098 mg/Kg 7/11/2022 9:27:00 AM 1 Surr: 4-Bromofluorobenzene 85.3 70-130 %Rec 1 7/11/2022 9:27:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/13/2022 12:02:17 AM ND 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 56

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-02 12-16 **Project:** Cooper Excavation Collection Date: 7/5/2022 10:50:00 AM Lab ID: 2207184-008 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/11/2022 10:54:18 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/11/2022 10:54:18 PM Surr: DNOP 83.3 51.1-141 %Rec 1 7/11/2022 10:54:18 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 10:26:00 AM 4.9 mg/Kg 1 Surr: BFB 86.1 37.7-212 %Rec 1 7/11/2022 10:26:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 10:26:00 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 10:26:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 10:26:00 AM Xylenes, Total ND 0.097 mg/Kg 1 7/11/2022 10:26:00 AM Surr: 4-Bromofluorobenzene 85.3 70-130 %Rec 1 7/11/2022 10:26:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/13/2022 12:39:29 AM ND 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 8 of 56

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-009

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-03 0-4 Collection Date: 7/5/2022 10:55:00 AM Received Date: 7/7/2022 7:45:00 AM

Eub ID: 220/101/00)	Multim Soll						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/11/2022 11:10:04 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/11/2022 11:10:04 PM		
Surr: DNOP	79.2	51.1-141	%Rec	1	7/11/2022 11:10:04 PM		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 11:25:00 AM		
Surr: BFB	80.6	37.7-212	%Rec	1	7/11/2022 11:25:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.024	mg/Kg	1	7/11/2022 11:25:00 AM		
Toluene	ND	0.049	mg/Kg	1	7/11/2022 11:25:00 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 11:25:00 AM		
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 11:25:00 AM		
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	7/11/2022 11:25:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	190	60	mg/Kg	20	7/13/2022 12:51:54 AM		

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper Excavation

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-03 4-8 Collection Date: 7/5/2022 11:00:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-010	Matrix: SOIL	Rece	ived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/11/2022 11:25:31 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/11/2022 11:25:31 PM
Surr: DNOP	83.8	51.1-141	%Rec	1	7/11/2022 11:25:31 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 11:44:00 AM
Surr: BFB	82.1	37.7-212	%Rec	1	7/11/2022 11:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/11/2022 11:44:00 AM
Toluene	ND	0.049	mg/Kg	1	7/11/2022 11:44:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 11:44:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 11:44:00 AM
Surr: 4-Bromofluorobenzene	81.7	70-130	%Rec	1	7/11/2022 11:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	140	59	mg/Kg	20	7/12/2022 6:40:18 PM

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

Qualifiers:

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

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

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Analytical Report
Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-03 8-12 **Project: Cooper Excavation** Collection Date: 7/5/2022 11:05:00 AM Lab ID: 2207184-011 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 7/11/2022 11:40:43 PM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) 7/11/2022 11:40:43 PM ND 49 mg/Kg 1 Surr: DNOP 79.6 51.1-141 %Rec 1 7/11/2022 11:40:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 12:04:00 PM 4.9 mg/Kg 1 Surr: BFB 83.9 37.7-212 %Rec 1 7/11/2022 12:04:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 12:04:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 12:04:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 12:04:00 PM Xylenes, Total ND 0.097 mg/Kg 1 7/11/2022 12:04:00 PM Surr: 4-Bromofluorobenzene 84.4 70-130 %Rec 1 7/11/2022 12:04:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/12/2022 7:17:32 PM 140 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-03 12-16 **Project: Cooper Excavation** Collection Date: 7/5/2022 11:10:00 AM Lab ID: 2207184-012 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/11/2022 11:56:28 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/11/2022 11:56:28 PM Surr: DNOP 73.9 51.1-141 %Rec 1 7/11/2022 11:56:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 12:24:00 PM 4.9 mg/Kg 1 Surr: BFB 83.2 37.7-212 %Rec 1 7/11/2022 12:24:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 12:24:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 12:24:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 12:24:00 PM Xylenes, Total ND 0.098 mg/Kg 7/11/2022 12:24:00 PM 1 Surr: 4-Bromofluorobenzene 86.2 70-130 %Rec 1 7/11/2022 12:24:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 7/12/2022 7:29:56 PM 120 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-04 0-4 Collection Date: 7/5/2022 11:15:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-013	Matrix: SOIL Received Date: 7/7/2022 7:45:0			22 7:45:00 AM	
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 12:11:54 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 12:11:54 AM
Surr: DNOP	71.5	51.1-141	%Rec	1	7/12/2022 12:11:54 AM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/11/2022 12:44:00 PM
Surr: BFB	80.6	37.7-212	%Rec	1	7/11/2022 12:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/11/2022 12:44:00 PM
Toluene	ND	0.050	mg/Kg	1	7/11/2022 12:44:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/11/2022 12:44:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/11/2022 12:44:00 PM
Surr: 4-Bromofluorobenzene	82.2	70-130	%Rec	1	7/11/2022 12:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/12/2022 8:07:10 PM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-04 4-8 Collection Date: 7/5/2022 11:20:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-014	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 12:27:09 AM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 12:27:09 AM	
Surr: DNOP	77.0	51.1-141	%Rec	1	7/12/2022 12:27:09 AM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/11/2022 1:04:00 PM	
Surr: BFB	84.8	37.7-212	%Rec	1	7/11/2022 1:04:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.024	mg/Kg	1	7/11/2022 1:04:00 PM	
Toluene	ND	0.048	mg/Kg	1	7/11/2022 1:04:00 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	7/11/2022 1:04:00 PM	
Xylenes, Total	ND	0.097	mg/Kg	1	7/11/2022 1:04:00 PM	
Surr: 4-Bromofluorobenzene	84.0	70-130	%Rec	1	7/11/2022 1:04:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	7/12/2022 8:19:34 PM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-015

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: WS22-04 8-12

 Collection Date: 7/5/2022 11:25:00 AM

 Matrix: SOIL
 Received Date: 7/7/2022 7:45:00 AM

 Result
 RL Oual Units DF Date Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 12:43:02 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 12:43:02 AM
Surr: DNOP	83.2	51.1-141	%Rec	1	7/12/2022 12:43:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 1:23:00 PM
Surr: BFB	84.3	37.7-212	%Rec	1	7/11/2022 1:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/11/2022 1:23:00 PM
Toluene	ND	0.049	mg/Kg	1	7/11/2022 1:23:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 1:23:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/11/2022 1:23:00 PM
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	7/11/2022 1:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/12/2022 8:31:59 PM
Gillonde	ND	00	mg/rtg	20	1/12/2022 0.31.39 FW

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-04 12-24 Collection Date: 7/5/2022 11:30:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-016	Matrix: SOIL Received Date: 7/7/2022 7:45:00 /			22 7:45:00 AM	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 12:58:39 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 12:58:39 AM
Surr: DNOP	71.3	51.1-141	%Rec	1	7/12/2022 12:58:39 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/11/2022 1:43:00 PM
Surr: BFB	84.7	37.7-212	%Rec	1	7/11/2022 1:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/11/2022 1:43:00 PM
Toluene	ND	0.050	mg/Kg	1	7/11/2022 1:43:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/11/2022 1:43:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/11/2022 1:43:00 PM
Surr: 4-Bromofluorobenzene	84.1	70-130	%Rec	1	7/11/2022 1:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	7/12/2022 8:44:23 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-05 0-4 Collection Date: 7/5/2022 11:35:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-017	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 1:14:14 AM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 1:14:14 AM	
Surr: DNOP	77.1	51.1-141	%Rec	1	7/12/2022 1:14:14 AM	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 2:23:00 PM	
Surr: BFB	79.2	37.7-212	%Rec	1	7/11/2022 2:23:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/11/2022 2:23:00 PM	
Toluene	ND	0.049	mg/Kg	1	7/11/2022 2:23:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 2:23:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 2:23:00 PM	
Surr: 4-Bromofluorobenzene	81.6	70-130	%Rec	1	7/11/2022 2:23:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	7/12/2022 8:56:48 PM	

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-05 4-8 Collection Date: 7/5/2022 11:40:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-018	Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM			22 7:45:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 1:30:10 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 1:30:10 AM
Surr: DNOP	75.1	51.1-141	%Rec	1	7/12/2022 1:30:10 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/11/2022 2:43:00 PM
Surr: BFB	81.3	37.7-212	%Rec	1	7/11/2022 2:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/11/2022 2:43:00 PM
Toluene	ND	0.048	mg/Kg	1	7/11/2022 2:43:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/11/2022 2:43:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/11/2022 2:43:00 PM
Surr: 4-Bromofluorobenzene	82.1	70-130	%Rec	1	7/11/2022 2:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/12/2022 9:09:13 PM

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

Qualifiers:

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

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

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Lab ID:

Analyses

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-05 8-12 Cooper Excavation Collection Date: 7/5/2022 11:45:00 AM 2207184-019 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND mg/Kg 7/12/2022 1:45:55 AM 15 1 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/12/2022 1:45:55 AM N

Surr: DNOP	71.3	51.1-141	%Rec	1	7/12/2022 1:45:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/11/2022 3:03:00 PM
Surr: BFB	81.8	37.7-212	%Rec	1	7/11/2022 3:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/11/2022 3:03:00 PM
Toluene	ND	0.050	mg/Kg	1	7/11/2022 3:03:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/11/2022 3:03:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/11/2022 3:03:00 PM
Surr: 4-Bromofluorobenzene	80.4	70-130	%Rec	1	7/11/2022 3:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	74	mg/Kg	20	7/12/2022 9:21:37 PM

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-05 12-16 Collection Date: 7/5/2022 11:50:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-020	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 2:01:41 AM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/12/2022 2:01:41 AM	
Surr: DNOP	72.3	51.1-141	%Rec	1	7/12/2022 2:01:41 AM	
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 3:23:00 PM	
Surr: BFB	83.2	37.7-212	%Rec	1	7/11/2022 3:23:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/11/2022 3:23:00 PM	
Toluene	ND	0.049	mg/Kg	1	7/11/2022 3:23:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 3:23:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 3:23:00 PM	
Surr: 4-Bromofluorobenzene	81.6	70-130	%Rec	1	7/11/2022 3:23:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	7/12/2022 9:34:02 PM	

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Chloride

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report
Lab Order 2207184

7/12/2022 9:46:27 PM

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-06 0-4 Collection Date: 7/5/2022 11:55:00 AM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-021 Matrix: SOIL Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 2:17:53 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/12/2022 2:17:53 AM Surr: DNOP 73.8 51.1-141 %Rec 1 7/12/2022 2:17:53 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 3:43:00 PM 4.9 mg/Kg 1 Surr: BFB 80.6 37.7-212 %Rec 1 7/11/2022 3:43:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 3:43:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 3:43:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 3:43:00 PM Xylenes, Total ND 0.099 mg/Kg 1 7/11/2022 3:43:00 PM Surr: 4-Bromofluorobenzene 82.8 70-130 %Rec 1 7/11/2022 3:43:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT

130

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

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

mg/Kg

20

60

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-06 4-8 Collection Date: 7/5/2022 12:00:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-022	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 2:33:44 AM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/12/2022 2:33:44 AM	
Surr: DNOP	79.7	51.1-141	%Rec	1	7/12/2022 2:33:44 AM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/11/2022 4:03:00 PM	
Surr: BFB	85.9	37.7-212	%Rec	1	7/11/2022 4:03:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/11/2022 4:03:00 PM	
Toluene	ND	0.050	mg/Kg	1	7/11/2022 4:03:00 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	7/11/2022 4:03:00 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	7/11/2022 4:03:00 PM	
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	7/11/2022 4:03:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	170	60	mg/Kg	20	7/12/2022 9:58:52 PM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-06 8-12 **Project:** Cooper Excavation Collection Date: 7/5/2022 12:05:00 PM Lab ID: 2207184-023 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/12/2022 2:49:40 AM Motor Oil Range Organics (MRO) 47 ND mg/Kg 1 7/12/2022 2:49:40 AM Surr: DNOP 75.8 51.1-141 %Rec 1 7/12/2022 2:49:40 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/11/2022 4:23:00 PM 5.0 mg/Kg 1 Surr: BFB 83.3 37.7-212 %Rec 1 7/11/2022 4:23:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/11/2022 4:23:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/11/2022 4:23:00 PM Ethylbenzene ND 0.050 mg/Kg 1 7/11/2022 4:23:00 PM Xylenes, Total ND 0.099 mg/Kg 1 7/11/2022 4:23:00 PM Surr: 4-Bromofluorobenzene 83.7 70-130 %Rec 1 7/11/2022 4:23:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 7/12/2022 10:36:06 PM 170 61 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 23 of 56

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-06 12-24 Collection Date: 7/5/2022 12:10:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-024	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 3:05:15 AM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/12/2022 3:05:15 AM	
Surr: DNOP	78.8	51.1-141	%Rec	1	7/12/2022 3:05:15 AM	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 4:43:00 PM	
Surr: BFB	83.1	37.7-212	%Rec	1	7/11/2022 4:43:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/11/2022 4:43:00 PM	
Toluene	ND	0.049	mg/Kg	1	7/11/2022 4:43:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 4:43:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 4:43:00 PM	
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	7/11/2022 4:43:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	110	61	mg/Kg	20	7/12/2022 10:48:32 PM	

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-025

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-07 0-4 Collection Date: 7/5/2022 12:15:00 PM

Received Date: 7/7/2022 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: ED				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 3:20:35 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 3:20:35 AM
Surr: DNOP	77.2	51.1-141	%Rec	1	7/12/2022 3:20:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 5:03:00 PM
Surr: BFB	82.5	37.7-212	%Rec	1	7/11/2022 5:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/11/2022 5:03:00 PM
Toluene	ND	0.049	mg/Kg	1	7/11/2022 5:03:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 5:03:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/11/2022 5:03:00 PM
Surr: 4-Bromofluorobenzene	82.7	70-130	%Rec	1	7/11/2022 5:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/12/2022 11:00:57 PM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

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

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-07 4-8 Collection Date: 7/5/2022 12:20:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-026	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	7/11/2022 7:08:38 PM	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/11/2022 7:08:38 PM	
Surr: DNOP	106	51.1-141	%Rec	1	7/11/2022 7:08:38 PM	
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 5:23:00 PM	
Surr: BFB	82.7	37.7-212	%Rec	1	7/11/2022 5:23:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/11/2022 5:23:00 PM	
Toluene	ND	0.049	mg/Kg	1	7/11/2022 5:23:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 5:23:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 5:23:00 PM	
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	7/11/2022 5:23:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	7/12/2022 11:13:21 PM	

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-07 8-12 Collection Date: 7/5/2022 12:25:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-027	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 12:20:44 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/12/2022 12:20:44 PM	
Surr: DNOP	101	51.1-141	%Rec	1	7/12/2022 12:20:44 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2022 2:39:00 AM	
Surr: BFB	84.4	37.7-212	%Rec	1	7/12/2022 2:39:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/12/2022 2:39:00 AM	
Toluene	ND	0.050	mg/Kg	1	7/12/2022 2:39:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2022 2:39:00 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2022 2:39:00 AM	
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	7/12/2022 2:39:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	7/12/2022 11:25:45 PM	

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

Qualifiers:

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

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

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

7/12/2022 11:38:09 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-07 12-16 **Project:** Cooper Excavation Collection Date: 7/5/2022 12:30:00 PM Lab ID: 2207184-028 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/12/2022 1:09:53 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/12/2022 1:09:53 PM Surr: DNOP 95.8 51.1-141 %Rec 1 7/12/2022 1:09:53 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/12/2022 2:58:00 AM 4.9 mg/Kg 1 Surr: BFB 79.9 37.7-212 %Rec 1 7/12/2022 2:58:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 7/12/2022 2:58:00 AM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/12/2022 2:58:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/12/2022 2:58:00 AM Xylenes, Total ND 0.098 mg/Kg 7/12/2022 2:58:00 AM 1 Surr: 4-Bromofluorobenzene 82.2 70-130 %Rec 1 7/12/2022 2:58:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT

ND

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

Qualifiers:

Chloride

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

mg/Kg

20

60

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-08 0-4 Collection Date: 7/5/2022 12:35:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-029	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 1:26:03 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 1:26:03 PM	
Surr: DNOP	99.6	51.1-141	%Rec	1	7/12/2022 1:26:03 PM	
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2022 3:18:00 AM	
Surr: BFB	82.6	37.7-212	%Rec	1	7/12/2022 3:18:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	7/12/2022 3:18:00 AM	
Toluene	ND	0.050	mg/Kg	1	7/12/2022 3:18:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2022 3:18:00 AM	
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2022 3:18:00 AM	
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	7/12/2022 3:18:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	320	60	mg/Kg	20	7/13/2022 10:11:25 AM	

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-030

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-08 4-8 Collection Date: 7/5/2022 12:40:00 PM Received Date: 7/7/2022 7:45:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 1:43:15 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 1:43:15 PM
Surr: DNOP	81.8	51.1-141	%Rec	1	7/12/2022 1:43:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/11/2022 9:07:48 PM
Surr: BFB	98.1	37.7-212	%Rec	1	7/11/2022 9:07:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/11/2022 9:07:48 PM
Toluene	ND	0.050	mg/Kg	1	7/11/2022 9:07:48 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/11/2022 9:07:48 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/11/2022 9:07:48 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/11/2022 9:07:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	310	61	mg/Kg	20	7/13/2022 10:48:39 AM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-08 8-12 **Project: Cooper Excavation** Collection Date: 7/5/2022 12:45:00 PM Lab ID: 2207184-031 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 2:56:48 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/12/2022 2:56:48 PM Surr: DNOP 90.5 51.1-141 %Rec 1 7/12/2022 2:56:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/11/2022 10:18:49 PM 4.9 mg/Kg 1 Surr: BFB 96.5 37.7-212 %Rec 1 7/11/2022 10:18:49 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/11/2022 10:18:49 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/11/2022 10:18:49 PM Ethylbenzene ND 0.049 mg/Kg 1 7/11/2022 10:18:49 PM Xylenes, Total ND 0.098 mg/Kg 1 7/11/2022 10:18:49 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 7/11/2022 10:18:49 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/13/2022 11:01:04 AM 330 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report
Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-08 12-16 **Project:** Cooper Excavation Collection Date: 7/5/2022 12:50:00 PM Lab ID: 2207184-032 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 3:21:11 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/12/2022 3:21:11 PM Surr: DNOP 80.9 51.1-141 %Rec 1 7/12/2022 3:21:11 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/11/2022 11:29:38 PM 5.0 mg/Kg 1 Surr: BFB 93.6 37.7-212 %Rec 1 7/11/2022 11:29:38 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 7/11/2022 11:29:38 PM mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/11/2022 11:29:38 PM Ethylbenzene ND 0.050 mg/Kg 1 7/11/2022 11:29:38 PM Xylenes, Total ND mg/Kg 7/11/2022 11:29:38 PM 0.10 1 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 7/11/2022 11:29:38 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/13/2022 11:13:29 AM 280 60 20

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

Qualifiers:

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

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

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H Holding times for preparation or analysis exceeded

Cooper Excavation

2207184-033

Project:

Lab ID:

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 **CLIENT:** Vertex Resources Services, Inc. Client Sample ID: WS22-09 0-4 Collection Date: 7/5/2022 12:55:00 PM Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Docult **PI** Qual Unite DF Data Analyzad

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 3:45:38 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 3:45:38 PM
Surr: DNOP	90.6	51.1-141	%Rec	1	7/12/2022 3:45:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/11/2022 11:53:12 PM
Surr: BFB	93.5	37.7-212	%Rec	1	7/11/2022 11:53:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	7/11/2022 11:53:12 PM
Toluene	ND	0.049	mg/Kg	1	7/11/2022 11:53:12 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/11/2022 11:53:12 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/11/2022 11:53:12 PM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	7/11/2022 11:53:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	300	60	mg/Kg	20	7/13/2022 11:25:54 AM

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

Qualifiers:

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

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

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н Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-09 4-8 Collection Date: 7/5/2022 1:00:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-034	Matrix: SOIL	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 4:10:06 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 4:10:06 PM	
Surr: DNOP	89.2	51.1-141	%Rec	1	7/12/2022 4:10:06 PM	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2022 12:16:50 AM	
Surr: BFB	93.9	37.7-212	%Rec	1	7/12/2022 12:16:50 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.025	mg/Kg	1	7/12/2022 12:16:50 AM	
Toluene	ND	0.049	mg/Kg	1	7/12/2022 12:16:50 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2022 12:16:50 AM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2022 12:16:50 AM	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/12/2022 12:16:50 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	290	61	mg/Kg	20	7/13/2022 11:38:18 AM	

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

Qualifiers:

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

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

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-09 8-12 **Project:** Cooper Excavation Collection Date: 7/5/2022 1:05:00 PM Lab ID: 2207184-035 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 4:34:40 PM Motor Oil Range Organics (MRO) 7/12/2022 4:34:40 PM ND 49 mg/Kg 1 Surr: DNOP 91.7 51.1-141 %Rec 1 7/12/2022 4:34:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/12/2022 12:40:24 AM 4.9 mg/Kg 1 Surr: BFB 93.2 37.7-212 %Rec 1 7/12/2022 12:40:24 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/12/2022 12:40:24 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/12/2022 12:40:24 AM Ethylbenzene ND 0.049 mg/Kg 1 7/12/2022 12:40:24 AM Xylenes, Total ND 0.099 mg/Kg 7/12/2022 12:40:24 AM 1 Surr: 4-Bromofluorobenzene 98.2 70-130 %Rec 1 7/12/2022 12:40:24 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/13/2022 12:15:31 PM 310 60 20

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

RL Reporting Limit

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H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

E Estimated value

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-036

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: WS22-09 12-16

 Collection Date: 7/5/2022 1:10:00 PM

 Matrix: SOIL
 Received Date: 7/7/2022 7:45:00 AM

 Page1
 Page 4

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 5:23:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 5:23:44 PM
Surr: DNOP	85.5	51.1-141	%Rec	1	7/12/2022 5:23:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2022 1:03:58 AM
Surr: BFB	94.0	37.7-212	%Rec	1	7/12/2022 1:03:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2022 1:03:58 AM
Toluene	ND	0.049	mg/Kg	1	7/12/2022 1:03:58 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2022 1:03:58 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2022 1:03:58 AM
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	7/12/2022 1:03:58 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	280	60	mg/Kg	20	7/13/2022 12:27:56 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper Excavation

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-10 0-4 Collection Date: 7/5/2022 1:15:00 PM Bassiand Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-037	Matrix: SOIL	Rece	Received Date: 7/7/2022 7:45:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 5:48:18 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/12/2022 5:48:18 PM		
Surr: DNOP	91.9	51.1-141	%Rec	1	7/12/2022 5:48:18 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2022 1:27:29 AM		
Surr: BFB	95.4	37.7-212	%Rec	1	7/12/2022 1:27:29 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	7/12/2022 1:27:29 AM		
Toluene	ND	0.048	mg/Kg	1	7/12/2022 1:27:29 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2022 1:27:29 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	7/12/2022 1:27:29 AM		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	7/12/2022 1:27:29 AM		
EPA METHOD 300.0: ANIONS					Analyst: JTT		
Chloride	480	60	mg/Kg	20	7/13/2022 12:40:21 PM		

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

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

B Analyte detected in the associated Method Blank

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

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H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-10 8-12 Collection Date: 7/5/2022 1:20:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-038	Matrix: SOIL	Matrix: SOIL Received Date: 7/7/2022 7:45:0				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 6:12:56 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 6:12:56 PM	
Surr: DNOP	93.8	51.1-141	%Rec	1	7/12/2022 6:12:56 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2022 2:14:25 AM	
Surr: BFB	94.5	37.7-212	%Rec	1	7/12/2022 2:14:25 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.024	mg/Kg	1	7/12/2022 2:14:25 AM	
Toluene	ND	0.049	mg/Kg	1	7/12/2022 2:14:25 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2022 2:14:25 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	7/12/2022 2:14:25 AM	
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/12/2022 2:14:25 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	470	60	mg/Kg	20	7/13/2022 12:52:45 PM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Benering Limit

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-039

Analytical Report
Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: WS22-10 12-16

 Collection Date: 7/5/2022 1:25:00 PM

 Matrix: SOIL
 Received Date: 7/7/2022 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 6:37:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/12/2022 6:37:37 PM
Surr: DNOP	89.4	51.1-141	%Rec	1	7/12/2022 6:37:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2022 2:37:56 AM
Surr: BFB	92.3	37.7-212	%Rec	1	7/12/2022 2:37:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2022 2:37:56 AM
Toluene	ND	0.050	mg/Kg	1	7/12/2022 2:37:56 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2022 2:37:56 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/12/2022 2:37:56 AM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	7/12/2022 2:37:56 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	440	60	mg/Kg	20	7/13/2022 1:05:09 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Project: Cooper Excavation

Analytical Report Lab Order 2207184

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2022 Client Sample ID: WS22-11 0-4 Collection Date: 7/5/2022 1:30:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-040	Matrix: SOIL	Rece	eived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 7:02:20 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 7:02:20 PM
Surr: DNOP	70.1	51.1-141	%Rec	1	7/12/2022 7:02:20 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2022 3:01:25 AM
Surr: BFB	92.1	37.7-212	%Rec	1	7/12/2022 3:01:25 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2022 3:01:25 AM
Toluene	ND	0.050	mg/Kg	1	7/12/2022 3:01:25 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2022 3:01:25 AM
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2022 3:01:25 AM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	7/12/2022 3:01:25 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/13/2022 1:17:33 PM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-11 4-8 **Project: Cooper Excavation** Collection Date: 7/5/2022 1:35:00 PM Lab ID: 2207184-041 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 7:26:59 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/12/2022 7:26:59 PM Surr: DNOP 60.7 51.1-141 %Rec 1 7/12/2022 7:26:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/12/2022 3:24:50 AM 4.9 mg/Kg 1 Surr: BFB 92.9 37.7-212 %Rec 1 7/12/2022 3:24:50 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/12/2022 3:24:50 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/12/2022 3:24:50 AM Ethylbenzene ND 0.049 mg/Kg 1 7/12/2022 3:24:50 AM Xylenes, Total ND 0.099 mg/Kg 7/12/2022 3:24:50 AM 1 Surr: 4-Bromofluorobenzene 97.5 70-130 %Rec 1 7/12/2022 3:24:50 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/13/2022 1:29:57 PM ND 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report
Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-11 8-12 **Project: Cooper Excavation** Collection Date: 7/5/2022 1:40:00 PM Lab ID: 2207184-042 Matrix: SOIL Received Date: 7/7/2022 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/12/2022 7:51:36 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/12/2022 7:51:36 PM Surr: DNOP 57.9 51.1-141 %Rec 1 7/12/2022 7:51:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/12/2022 3:48:21 AM 4.8 mg/Kg 1 Surr: BFB 93.2 37.7-212 %Rec 1 7/12/2022 3:48:21 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/12/2022 3:48:21 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/12/2022 3:48:21 AM Ethylbenzene ND 0.048 mg/Kg 1 7/12/2022 3:48:21 AM Xylenes, Total ND 0.097 mg/Kg 7/12/2022 3:48:21 AM 1 Surr: 4-Bromofluorobenzene 99.1 70-130 %Rec 1 7/12/2022 3:48:21 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/13/2022 1:42:22 PM ND 60 20

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

Qualifiers:

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

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

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H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-11 12-16 Collection Date: 7/5/2022 1:45:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-043	Matrix: SOIL	Rece	eived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 8:16:07 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 8:16:07 PM
Surr: DNOP	66.2	51.1-141	%Rec	1	7/12/2022 8:16:07 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2022 4:11:46 AM
Surr: BFB	93.8	37.7-212	%Rec	1	7/12/2022 4:11:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2022 4:11:46 AM
Toluene	ND	0.050	mg/Kg	1	7/12/2022 4:11:46 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2022 4:11:46 AM
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2022 4:11:46 AM
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	7/12/2022 4:11:46 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	60	mg/Kg	20	7/13/2022 1:54:46 PM

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

Qualifiers:

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

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207184-044

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-12 Collection Date: 7/5/2022 1:50:00 PM Received Date: 7/7/2022 7:45:00 AM

	Soll	1000	nieu Duiei	11 11 20	22 / 10.00 / 101
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/12/2022 8:40:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2022 8:40:40 PM
Surr: DNOP	62.5	51.1-141	%Rec	1	7/12/2022 8:40:40 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2022 4:35:19 AM
Surr: BFB	92.2	37.7-212	%Rec	1	7/12/2022 4:35:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	7/12/2022 4:35:19 AM
Toluene	ND	0.049	mg/Kg	1	7/12/2022 4:35:19 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2022 4:35:19 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/12/2022 4:35:19 AM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	7/12/2022 4:35:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	64	60	mg/Kg	20	7/13/2022 2:07:10 PM

Matrix: SOIL

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

Qualifiers:

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

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Released to Imaging: 2/24/2023 2:37:49 PM

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207184

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-13 Collection Date: 7/5/2022 1:55:00 PM Received Date: 7/7/2022 7:45:00 AM

Lab ID: 2207184-045	Matrix: SOIL	Rece	eived Date:	7/7/20	22 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/12/2022 9:05:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/12/2022 9:05:08 PM
Surr: DNOP	69.9	51.1-141	%Rec	1	7/12/2022 9:05:08 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2022 4:58:44 AM
Surr: BFB	93.4	37.7-212	%Rec	1	7/12/2022 4:58:44 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	7/12/2022 4:58:44 AM
Toluene	ND	0.049	mg/Kg	1	7/12/2022 4:58:44 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2022 4:58:44 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2022 4:58:44 AM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	7/12/2022 4:58:44 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	300	60	mg/Kg	20	7/13/2022 2:44:24 PM

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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U SUMINIARY REPORT	WO#:	2207184
Iall Environmental Analysis Laboratory, Inc.		18-Jul-22

Client: Project:		ex Resources Services, Inc. per Excavation	
Sample ID:	MB-68724	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68724	RunNo: 89439
Prep Date:	7/12/2022	Analysis Date: 7/12/2022	SeqNo: 3181876 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68724	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68724	RunNo: 89439
Prep Date:	7/12/2022	Analysis Date: 7/12/2022	SeqNo: 3181877 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 94.8 90 110
Sample ID:	MB-68734	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68734	RunNo: 89440
Prep Date:	7/12/2022	Analysis Date: 7/12/2022	SeqNo: 3181959 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68734	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68734	RunNo: 89440
Prep Date:	7/12/2022	Analysis Date: 7/12/2022	SeqNo: 3181960 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 91.8 90 110
Sample ID:	MB-68732	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 68732	RunNo: 89473
Prep Date:	7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183568 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-68732	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 68732	RunNo: 89473
Prep Date:	7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183569 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 92.6 90 110

Qualifiers:

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

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	WO#:	2207184
Hall Environmental Analysis Laboratory, Inc.		18-Jul-22

Client: Vertex H	Vertex Resources Services, Inc.							
Project: Cooper	Excavation							
Sample ID: MB-68651	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68651	RunNo: 89367						
Prep Date: 7/8/2022	Analysis Date: 7/11/2022	SeqNo: 3179032 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	ND 15							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	10 10.00	104 51.1 141						
Sample ID: LCS-68651	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 68651	RunNo: 89367						
Prep Date: 7/8/2022	Analysis Date: 7/11/2022	SeqNo: 3179034 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	50 15 50.00	0 101 64.4 127						
Surr: DNOP	5.6 5.000	112 51.1 141						
Sample ID: MB-68628	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68628	RunNo: 89385						
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179983 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	ND 15							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	9.8 10.00	98.3 51.1 141						
Sample ID: LCS-68628	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 68628	RunNo: 89385						
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179985 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	45 15 50.00	0 89.9 64.4 127						
Surr: DNOP	4.8 5.000	96.4 51.1 141						
Sample ID: MB-68643	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 68643	RunNo: 89368						
Prep Date: 7/8/2022	Analysis Date: 7/11/2022	SeqNo: 3180233 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	ND 15							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	8.4 10.00	84.2 51.1 141						

Qualifiers:

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

Diesel Range Organics (DRO) 45 15 50.00 0 89.5 64.4 127 Surr: DNOP 4.2 5.000 83.1 51.1 141 Sample ID: 2207184-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 144 SampI vpe: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 31	Project:	Vertex Re Cooper Ex		rvices,	Inc.							
Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180234 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadiation Diesel Range Organics (DRO) 45 15 50.00 0 89.5 64.4 127 Surr: DNOP 4.2 5.000 83.1 51.1 141 141 Sample ID: 2207184-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadiation Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 141	Sample ID:	LCS-68643	SampTy	/pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 45 15 50.00 0 89.5 64.4 127 Surr: DNOP 4.2 5.000 83.1 51.1 141 141 Sample ID: 2207184-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 0 Seample ID: 2207	Client ID:	LCSS	Batch	ID: 686	643	F	RunNo: 8 9	9368				
Diesel Range Organics (DRO) 45 15 50.00 0 89.5 64.4 127 Surr: DNOP 4.2 5.000 83.1 51.1 141 Sample ID: 2207184-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Que Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 141 48.26 0 86.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 0 0 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics 0	Prep Date:	7/8/2022	Analysis Da	ate: 7/ '	11/2022	S	SeqNo: 31	180234	Units: mg/K	g		
Surr: DNOP 4.2 5.00 83.1 51.1 141 Sample ID: 2207184-006AMS SampType: SampType: TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Surr: DNOP 3.6 4.826 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 14 144.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 14 142.26 0 84.8 1.1 141 14 142.26 0 84.8 36.1 154 1.04 33.9 3.7 4.826 76.1	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 2207184-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 14 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL <t< td=""><td>Diesel Range</td><th>e Organics (DRO)</th><td>45</td><td>15</td><td>50.00</td><td>0</td><td>89.5</td><td>64.4</td><td>127</td><td></td><td></td><td></td></t<>	Diesel Range	e Organics (DRO)	45	15	50.00	0	89.5	64.4	127			
Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 14 14 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Surr: DNOP 3.7 4	Surr: DNOP	Р	4.2		5.000		83.1	51.1	141			
Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180236 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 141 14 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Surr: DNOP 3.7 4.826 0 84.8 36.1 154 1.04 33.9	Sample ID:	2207184-006AMS	SampTy	/pe: MS	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 141 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS2-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Surr: DNOP 3.7 4.826 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 Sample ID:	Client ID:	WS22-02 4-8	Batch	ID: 686	643	F	RunNo: 8 9	9368				
Diesel Range Organics (DRO) 41 14 48.26 0 85.7 36.1 154 Surr: DNOP 3.6 4.826 74.8 51.1 141 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quz Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Sur: Divesel Range Organics Client ID: 141 48.26 0 84.8 36.1 154 1.04 33.9 Sur: Sur: DNOP 3.7 4.826 76.1 51.1 141 0 0 0 Sam	Prep Date:	7/8/2022	Analysis Da	ate: 7/ '	11/2022	S	SeqNo: 31	180236	Units: mg/K	g		
Surr: DNOP 3.6 4.826 74.8 51.1 141 Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK value SPK value ClowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 2207184-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte	Diesel Range	e Organics (DRO)	41	14	48.26	0	85.7	36.1	154			
Client ID: WS22-02 4-8 Batch ID: 68643 RunNo: 89368 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 0 84.8 36.1 154 1.04 33.9 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 51 15 49.	Surr: DNOP	Р	3.6		4.826		74.8	51.1	141			
Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180237 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 0 84.8 36.1 154 1.04 33.9 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Sur: DNOP 5.5 <td< th=""><th>Sample ID:</th><th>2207184-006AMSD</th><th>SampTy</th><th>/pe: MS</th><th>D</th><th>Tes</th><th>tCode: EF</th><th>PA Method</th><th>8015M/D: Die</th><th>sel Range</th><th>Organics</th><th></th></td<>	Sample ID:	2207184-006AMSD	SampTy	/pe: MS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 0 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 0 113 51.1 141	Client ID:	WS22-02 4-8	Batch	ID: 686	643	F	RunNo: 8 9	9368				
Diesel Range Organics (DRO) 41 14 48.26 0 84.8 36.1 154 1.04 33.9 Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 0 104 36.1 154 10.4 33.9	Prep Date:	7/8/2022	Analysis Da	ate: 7/ '	11/2022	S	SeqNo: 31	180237	Units: mg/K	g		
Surr: DNOP 3.7 4.826 76.1 51.1 141 0 0 Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method S015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/1/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 113 51.1 141 0 0	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 2207184-026AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 113 51.1 141 0 0	Diesel Range	e Organics (DRO)	41	14	48.26	0	84.8	36.1	154	1.04	33.9	
Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367 Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity in the second secon	Surr: DNOP	Р	3.7		4.826		76.1	51.1	141	0	0	
Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180271 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Quadity Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 113 51.1 141 0 0	Sample ID:	2207184-026AMSD	SampTy	/pe: MS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQuadDiesel Range Organics (DRO)511549.07010436.115410.433.9Surr: DNOP5.54.90711351.114100	Client ID:	WS22-07 4-8	Batch	ID: 686	651	F	RunNo: 8 9	9367				
Diesel Range Organics (DRO) 51 15 49.07 0 104 36.1 154 10.4 33.9 Surr: DNOP 5.5 4.907 113 51.1 141 0 0	Prep Date:	7/8/2022	Analysis Da	ate: 7/ '	11/2022	S	SeqNo: 31	180271	Units: mg/K	g		
Surr: DNOP 5.5 4.907 113 51.1 141 0 0	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Diesel Range	e Organics (DRO)	51	15	49.07	0	104	36.1	154	10.4	33.9	
Sample ID: 2207184-026AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics	Surr: DNOP	P	5.5		4.907		113	51.1	141	0	0	
	Sample ID:	2207184-026AMS	SampTy	/pe: MS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: WS22-07 4-8 Batch ID: 68651 RunNo: 89367	Client ID:	WS22-07 4-8	Batch	ID: 686	651	F	RunNo: 8 9	9367				
Prep Date: 7/8/2022 Analysis Date: 7/11/2022 SeqNo: 3180272 Units: mg/Kg	Prep Date:	7/8/2022	Analysis Da	ate: 7/ '	11/2022	S	SeqNo: 31	180272	Units: mg/K	g		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) 46 14 47.08 0 97.5 36.1 154			46	14	47.08	0	97.5	36.1	154			
Surr: DNOP 5.2 4.708 110 51.1 141	Surr: DNOP	P	5.2		4.708		110	51.1	141			
Sample ID: MB-68672 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	Sample ID:	MB-68672	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS Batch ID: 68672 RunNo: 89397	Client ID:	PBS	Batch	ID: 686	672	F	RunNo: 8 9	9397				
Prep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3180547 Units: mg/Kg	Prep Date:	7/11/2022	Analysis Da	ate: 7/ *	12/2022	S	SeqNo: 31	180547	Units: mg/K	g		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua	Analvte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

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2207184

18-Jul-22

	esources Services Excavation	, Inc.							
Sample ID: MB-68672	SampType: MI	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 68	672	F	RunNo: 89397					
Prep Date: 7/11/2022	Analysis Date: 7/	12/2022	S	SeqNo: 31	80547	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.4	10.00		94.1	51.1	141			
Sample ID: LCS-68672	SampType: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 68	672	F	RunNo: 89	397				
Prep Date: 7/11/2022	Analysis Date: 7/	12/2022	S	SeqNo: 31	80548	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56 15	50.00	0	111	64.4	127			
Surr: DNOP	5.3	5.000		107	51.1	141			
Sample ID: 2207184-027AMS	SampType: Ms	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS22-07 8-12	Batch ID: 68	Batch ID: 68672 RunNo: 89397							
Prep Date: 7/11/2022	Analysis Date: 7/	12/2022	5	SeqNo: 31	80550	Units: mg/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 15	48.88	0	95.5	36.1	154			
Surr: DNOP	4.6	4.888		93.8	51.1	141			
Sample ID: 2207184-027AMS	D SampType: Ms	SD	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: WS22-07 8-12	Batch ID: 68	672	F	RunNo: 89	397		-	-	
Prep Date: 7/11/2022	Analysis Date: 7/	12/2022	S	SeqNo: 31	80551	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43 15	48.78	0	87.2	36.1	154	9.34	33.9	
Surr: DNOP	4.5	4.878		92.4	51.1	141	0	0	
Sample ID: MB-68693	SampType: MI	BLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 68			RunNo: 89			5	-	
Prep Date: 7/11/2022	Analysis Date: 7/			SeqNo: 31		Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4	10.00	5	83.6	51.1	141	,D		
Sample ID: LCS-68693	SampType: LC	·s	Tee	tCode: EE	A Method	8015M/D: Die	sel Ranco	Organice	
Client ID: LCSS	Batch ID: 68			RunNo: 89		JUI JIVI/D. DIE	sei nange	Juganics	
Prep Date: 7/11/2022	Analysis Date: 7/			SeqNo: 31		Units: %Red			
									. .
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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ample ID: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: LCSS Batch ID: 68693 RunNo: 89397 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3181560 Units: %Rec alate Result POL SPK Natue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual alate Result POL SPK Natue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ample ID: 2207184-030AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS2-08 4-8 Batch ID: 68674 RunNo: 89454 Units: mg/Kg rample ID: 2207184-030AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics ein ID: WS2-08 4-8 Batch ID: 66674 RunNo: 89454 Units: mg/Kg rample ID: LCS-68674	Client:	Vertex Re	sources Se	ervices,	Inc.							
Here II: D: LCSS Batch ID: 68693 RunNo: 89397 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3181560 Units: %Rec nalyte Result PQL SPK Ref Val %REC LowLinnit HighLinnit %RPD RPDLimit Qual urr: DNOP 4.0 5.000 81.0 51.1 141 41	Project:	Cooper Ex	cavation									
ep Date: 7/1/2022 Analysis Date: 7/1/2022 SeqNo: 3181560 Units: %Rec halyte Result POL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual smr: DNOP 4.0 5.000 81.0 51.1 141 2000 Result POL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual smr: DNOP 4.0 5.000 81.0 51.1 141 <	Sample ID:	LCS-68693	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015M/D: Die:	sel Range	Organics	
Name Result PQL SPK value SPK value <th>Client ID:</th> <th>LCSS</th> <th>Batch</th> <th>n ID: 686</th> <th>693</th> <th>F</th> <th colspan="5"></th> <th></th>	Client ID:	LCSS	Batch	n ID: 686	693	F						
Surr. DNOP 4.0 5.00 81.0 51.1 141 ample ID: 2207184-030AMS SampType: MS TesiCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182447 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 37 14 47.13 0 79.1 36.1 154 burr: DNOP 3.5 4.713 73.4 51.1 141 ample ID: 2207184-030AMSD SampType: MSD TesiCode: EPA Method 8015M/D: Diesel Range Organics autyte Result PQL SPK value SP	Prep Date:	7/11/2022	Analysis D	Date: 7/	12/2022	S	SeqNo: 31	81560	Units: %Rec			
Surr. DNOP 4.0 5.00 81.0 51.1 141 ample ID: 2207184-030AMS SampType: MS TesiCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182447 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 37 14 47.13 0 79.1 36.1 154 burr: DNOP 3.5 4.713 73.4 51.1 141 ample ID: 2207184-030AMSD SampType: MSD TesiCode: EPA Method 8015M/D: Diesel Range Organics autyte Result PQL SPK value SP	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Inited ID: WS22-08 4-8 ge Date: Batch ID: 68674 (711/2022) RunNo: 89454 analysis Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182447 Units: mg/Kg analysis Date: PQL SPK value SPK Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual analysis Date: 7/11/2022 Samp Type: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 Units: mg/Kg analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual analyte Result PQL SPK value SPK Ref Val %	Surr: DNOP		4.0		5.000		81.0	51.1	-			
Particity Analysis Date: 7/12/2022 SeqNo: 3182447 Units: mg/Kg abyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 37 14 47.13 0 79.1 36.1 154 surr. DNOP 3.5 4.713 73.4 51.1 141	Sample ID:	2207184-030AMS	SampT	уре: МS	3	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
National Point Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual analyte Regre Organics (DRO) 37 14 47.13 0 79.1 36.1 154 aur: DNOP 3.5 4.713 73.4 51.1 141 141 ample ID: 2207184-030AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics eint ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182448 Units: mg/Kg alayte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 sur: DNOP 3.8 4.916 77.0 51.1 141 0 0 34.9	Client ID:	WS22-08 4-8	Batch	n ID: 686	674	F	RunNo: 8 9	9454		_	-	
Sel Range Organics (DRO) 37 14 47.13 0 79.1 36.1 154 Aurr. DNOP 3.5 4.713 73.4 51.1 141 ample ID: 2207184-030AMSD SampType: MSD TestCode: EPA Method 8015M/D: Disele Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182448 Units: mg/Kg nalyte Result POL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 Surr: DNOP 3.8 4.916 77.0 51.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Disele Range Organics ient ID: LCSS Batch ID: 68674	Prep Date:	7/11/2022	Analysis D	Date: 7/	12/2022	5	SeqNo: 31	182447	Units: mg/K	g		
Surr. DNOP 3.5 4.713 73.4 51.1 141 ample ID: 2207184-030AMISD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 Units: mg/Kg rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182448 Units: mg/Kg valyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 surr. DNOP 3.8 4.916 77.0 51.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ep Date: 7/11/2022 Analysis Date: 712/2022 SeqNo: 3182462 Units: mg/Kg analy	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ample ID: 2207184-030AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: WS22-08 4-8 Batch ID: 68674 RunNo: 89454 ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182448 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 surr: DNOP 3.8 4.916 77.0 51.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg valyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	Diesel Range (Organics (DRO)	37	14	47.13	0	79.1	36.1	154			
Batch ID: WS22-08 4-8 Batch ID: Batch ID: 66674 (Analysis Date: RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182448 Units: mg/Kg ralyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 surr: DNOP 3.8 4.916 0 82.1 36.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg alight ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg alight ep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg ample ID: MB-686674 S	Surr: DNOP		3.5		4.713		73.4	51.1	141			
The point in	Sample ID:	2207184-030AMSD	SampT	уре: МS	SD	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DR0) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 <th>Client ID:</th> <th>WS22-08 4-8</th> <th>Batch</th> <th>n ID: 686</th> <th>674</th> <th>F</th> <th colspan="5">RunNo: 89454</th> <th></th>	Client ID:	WS22-08 4-8	Batch	n ID: 686	674	F	RunNo: 89454					
Bel Range Organics (DRO) 40 15 49.16 0 82.1 36.1 154 7.96 33.9 Surr: DNOP 3.8 4.916 77.0 51.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: LCSS Batch ID: 68674 RunNo: 89454 tep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 141 15	Prep Date:	7/11/2022	Analysis D	nalysis Date: 7/12/2022			SeqNo: 3182448 Units: mg/Kg			g		
Surr: DNOP 3.8 4.916 77.0 51.1 141 0 0 ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: DisesI Range Organics ient ID: LCSS Batch ID: 68674 RunNo: 89454	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ample ID: LCS-68674 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: LCSS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 141 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 SeqNo: 3182466 Units: mg/Kg ample ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 SeqNo: 3182466 Units	•	•	40	15	49.16	0	82.1	36.1	154	7.96	33.9	
ient ID: LCSS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg rangle Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ample ID: PBS Batch ID: 68674 RunNo: 89454 RunNo: 89454 RunNo: 89454	Surr: DNOP		3.8		4.916		77.0	51.1	141	0	0	
rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182462 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 141 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ample ID: PBS Batch ID: 68674 RunNo: 89454 ient ID: PBS Batch ID: 68674 RunNo: 89454 analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual for Oil Range Organics (DRO) ND 15 Soft Soft Soft	Sample ID:	LCS-68674	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 50 50 50 50 50	Client ID:	LCSS	Batch	n ID: 686	674	RunNo: 89454						
Sel Range Organics (DRO) 41 15 50.00 0 81.2 64.4 127 Surr: DNOP 4.2 5.000 84.5 51.1 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 ND 50 50 50	Prep Date:	7/11/2022	Analysis D	Date: 7/	12/2022	S	SeqNo: 31	82462	Units: mg/K	g		
Burr: DNOP 4.2 5.000 84.5 51.1 141 ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg alyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 Solution Solution <th>Analyte</th> <th></th> <th>Result</th> <th>PQL</th> <th>SPK value</th> <th>SPK Ref Val</th> <th>%REC</th> <th>LowLimit</th> <th>HighLimit</th> <th>%RPD</th> <th>RPDLimit</th> <th>Qual</th>	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ample ID: MB-68674 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 Isoperation of the set of the se	Diesel Range (Organics (DRO)	41	15	50.00	0	81.2	64.4	127			
ient ID: PBS Batch ID: 68674 RunNo: 89454 rep Date: 7/11/2022 Analysis Date: 7/12/2022 SeqNo: 3182466 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 Sequences	Surr: DNOP		4.2		5.000		84.5	51.1	141			
rep Date: 7/11/2022 SeqNo: 3182466 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 tor Oil Range Organics (MRO) ND 50	Sample ID:	MB-68674	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual sel Range Organics (DRO) ND 15 tor Oil Range Organics (MRO) ND 50	Client ID:	PBS	Batch	Batch ID: 68674			RunNo: 8 9	9454				
sel Range Organics (DRO) ND 15 tor Oil Range Organics (MRO) ND 50	Prep Date:	7/11/2022	Analysis D)ate: 7/	12/2022	S	SeqNo: 31	82466	Units: mg/K	g		
tor Oil Range Organics (MRO) ND 50	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Diesel Range (Organics (DRO)	ND	15								
Surr: DNOP 9.1 10.00 91.0 51.1 141		e Organics (MRO)		50								
	Surr: DNOP		9.1		10.00		91.0	51.1	141			

Qualifiers:

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

Reporting Limit

2207184

18-Jul-22

	esources Services, Inc.							
Sample ID: Ics-68623	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68623	RunNo: 89348	TestCode: EPA Method 8015D: Gasoline Range RunNo: 89348					
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178144	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO)	25 5.0 25.00	0 99.0 72.3	137					
Surr: BFB	2000 1000	199 37.7	212					
Sample ID: mb-68623	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68623	RunNo: 89348						
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3178145	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO)	ND 5.0							
Surr: BFB	910 1000	91.1 37.7	212					
Sample ID: mb-68664	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68664	RunNo: 89366						
Prep Date: 7/10/2022	Analysis Date: 7/11/2022	SeqNo: 3179379	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO)	ND 5.0	00 7 07 7	010					
Surr: BFB	1000 1000	99.7 37.7	212					
Sample ID: Ics-68664	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68664	RunNo: 89366						
Prep Date: 7/10/2022	Analysis Date: 7/11/2022	SeqNo: 3179380	Units: mg/Kg					
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 25.00 2100 1000	0 106 72.3 207 37.7	137 212					
	2100 1000	201 51.1	212					
Sample ID: 2207184-030ams	SampType: MS		8015D: Gasoline Range					
Client ID: WS22-08 4-8	Batch ID: 68664	RunNo: 89366						
Prep Date: 7/10/2022	Analysis Date: 7/11/2022	SeqNo: 3179382	Units: mg/Kg					
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO) Surr: BFB	22 5.0 24.95 1800 998.0	0 87.6 70 181 37.7	130 212					
				1				
Sample ID: 2207184-030amsd			8015D: Gasoline Range					
Client ID: WS22-08 4-8	Batch ID: 68664	RunNo: 89366						
Prep Date: 7/10/2022	Analysis Date: 7/11/2022	SeqNo: 3179383	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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18-Jul-22

Client: Project:	Vertex Re Cooper Ex		ervices,	Inc.							
Sample ID: 22	07184-030amsd	SampT	уре: М S	D	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: W	S22-08 4-8	Batch	ID: 686	64	F	RunNo: 8 9	366				
Prep Date: 7	//10/2022	Analysis D	ate: 7/	1/2022	S	SeqNo: 31	79383	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	20	5.0	24.85	0	79.0	70	130	10.7	20	
Surr: BFB		1700		994.0		174	37.7	212	0	0	
Sample ID: Ics	s-68625	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LC	CSS	Batch	ID: 686	625	F	RunNo: 89	377				
Prep Date: 7	/7/2022	Analysis D	ate: 7/	1/2022	S	SeqNo: 31	79545	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	25	5.0	25.00	0	98.2	72.3	137			
Surr: BFB		1800		1000		177	37.7	212			
Sample ID: mt	b-68625	SampT	уре: МЕ	LK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PB	BS	Batch	ID: 686	625	F	RunNo: 8 9	377				
Prep Date: 7	/7/2022	Analysis D	ate: 7/	1/2022	S	SeqNo: 31	79546	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0								
Surr: BFB		820		1000		81.8	37.7	212			
Sample ID: 22	07184-007ams	SampT	уре: МS	;	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: WS	S22-02 8-12	Batch	ID: 686	625	F	RunNo: 8 9	377				
Prep Date: 7	/7/2022	Analysis D	ate: 7/	1/2022	ç	SeqNo: 31	79548	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	23	5.0	24.93	0	91.5	70	130			
Surr: BFB		1800		997.0		184	37.7	212			
Sample ID: 22	07184-007amsd	SampT	ype: MS	D	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: WS	S22-02 8-12	Batch	ID: 686	625	F	RunNo: 89	377				
Prep Date: 7	/7/2022	Analysis D	ate: 7/	1/2022	ç	SeqNo: 31	79549	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	24	5.0	25.00	0	95.4	70	130	4.49	20	
Surr: BFB		1900		1000		190	37.7	212	0	0	
Sample ID: Ics	s-68658	SampT	ype: LC	s	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: LC	CSS	Batch	ID: 686	58	F	RunNo: 8 9	377				
Prep Date: 7	//9/2022	Analysis D	ate: 7/	1/2022	S	SeqNo: 31	79571	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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18-Jul-22

Client: Project:		Resources Services Excavation	, Inc.							
Sample ID:	lcs-68658	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSS	Batch ID: 68	658	F	RunNo: 89377					
Prep Date:	7/9/2022	Analysis Date: 7/	/11/2022	S	SeqNo: 31	179571	Units: mg/Kg	J		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22 5.0	25.00	0	88.4	72.3	137			
Surr: BFB		1800	1000		176	37.7	212			
Sample ID:	mb-68658	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID: 68	658	F	RunNo: 89	9377				
Prep Date:	7/9/2022	Analysis Date: 7/	/11/2022	S	SeqNo: 31	79572	Units: mg/Kg	J		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	e Organics (GRO)	ND 5.0								
Surr: BFB		810	1000		81.0	37.7	212			
Sample ID:	mb	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID: G	39410	F	RunNo: 89	9410				
Prep Date:		Analysis Date: 7	/12/2022	S	SeqNo: 31	80613	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000	1000		101	37.7	212			
Sample ID:	2.5ug gro lcs	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch ID: G	39410	F	RunNo: 8 9	9410				
Prep Date:		Analysis Date: 7	/12/2022	S	SeqNo: 31	80614	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1900	1000		194	37.7	212			

Qualifiers:

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

2207184

18-Jul-22

Client: Project:		Resources S Excavation		Inc.							
Sample ID:	lcs-68623	623 SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID:	LCSS	Batc	h ID: 686	623	F	RunNo: 8 9					
Prep Date:	7/7/2022	Analysis [Date: 7/8	8/2022	5	SeqNo: 3178205 Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	87.0	80	120			
Toluene		0.88	0.050	1.000	0	88.3	80	120			
Ethylbenzene		0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total		2.6	0.10	3.000	0	86.9	80	120			
Surr: 4-Brom	nofluorobenzene	0.87		1.000		87.4	70	130			
Sample ID:	mb-68623 SampType: MBLK				Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 686	623	F	RunNo: 89	9348				
Prep Date:	7/7/2022	Analysis [Date: 7/8	8/2022	Ş	SeqNo: 31	78206	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.87		1.000		86.7	70	130			
	Iondorobenzene	0.07		1.000							
Sample ID:			Гуре: МЕ		Tes			8021B: Volat	iles		
		Samp	Гуре: МЕ h ID: 686	BLK			PA Method		iles		
Sample ID:	mb-68664	Samp	h ID: 686	BLK 664	F	tCode: EF	PA Method 9366				
Sample ID: Client ID: Prep Date: Analyte	mb-68664 PBS	Samp ⁻ Batc Analysis I Result	h ID: 686 Date: 7/* PQL	BLK 664 11/2022	F	tCode: EF	PA Method 9366	8021B: Volat		RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene	mb-68664 PBS	Samp ⁻ Batc Analysis I Result ND	h ID: 686 Date: 7/ PQL 0.025	BLK 664 11/2022	F	ttCode: EF RunNo: 89 SeqNo: 31	PA Method 9366 179427	8021B: Volat Units: mg/K	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	mb-68664 PBS	Samp Batc Analysis I Result ND ND	h ID: 686 Date: 7/* PQL 0.025 0.050	BLK 664 11/2022	F	ttCode: EF RunNo: 89 SeqNo: 31	PA Method 9366 179427	8021B: Volat Units: mg/K	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	mb-68664 PBS	Samp Batc Analysis I Result ND ND ND	h ID: 686 Date: 7/* PQL 0.025 0.050 0.050	BLK 664 11/2022	F	ttCode: EF RunNo: 89 SeqNo: 31	PA Method 9366 179427	8021B: Volat Units: mg/K	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	mb-68664 PBS 7/10/2022	Samp Batc Analysis I Result ND ND ND ND	h ID: 686 Date: 7/* PQL 0.025 0.050	8LK 664 11/2022 SPK value	F	atCode: EF RunNo: 89 SeqNo: 31 %REC	PA Method 0366 179427 LowLimit	8021B: Volat Units: mg/K HighLimit	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	mb-68664 PBS	Samp Batc Analysis I Result ND ND ND	h ID: 686 Date: 7/* PQL 0.025 0.050 0.050	BLK 664 11/2022	F	ttCode: EF RunNo: 89 SeqNo: 31	PA Method 9366 179427	8021B: Volat Units: mg/K	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	mb-68664 PBS 7/10/2022	Samp Batc Analysis I Result ND ND ND ND 1.0	h ID: 686 Date: 7/* PQL 0.025 0.050 0.050	BLK 564 11/2022 SPK value 1.000	F SPK Ref Val	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103	PA Method 0366 179427 LowLimit 70	8021B: Volat Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	mb-68664 PBS 7/10/2022	Samp Batc Analysis I Result ND ND ND ND 1.0	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10	BLK 564 11/2022 SPK value 1.000	F SPK Ref Val	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103	PA Method 0366 179427 LowLimit 70 PA Method	8021B: Volat Units: mg/K HighLimit 130	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID:	mb-68664 PBS 7/10/2022 nofluorobenzene LCS-68664	Samp Batc Analysis I Result ND ND ND ND 1.0	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686	BLK 564 11/2022 SPK value 1.000 S 564	F SPK Ref Val Tes F	tCode: EF RunNo: 89 SeqNo: 31 %REC 103	PA Method 0366 179427 LowLimit 70 PA Method 0366	8021B: Volat Units: mg/K HighLimit 130	Kg %RPD iles	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID:	mb-68664 PBS 7/10/2022 hofluorobenzene LCS-68664 LCSS	Samp Batc Analysis I Result ND ND ND ND 1.0 Samp Batc	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686 Date: 7/ PQL	BLK 564 11/2022 SPK value 1.000 S 564 11/2022 SPK value	F SPK Ref Val Tes F	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103 ttCode: EF RunNo: 89	24 Method 3366 179427 LowLimit 70 24 Method 3366 179428 LowLimit	8021B: Volat Units: mg/K HighLimit 130 8021B: Volat	Kg %RPD iles	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date:	mb-68664 PBS 7/10/2022 hofluorobenzene LCS-68664 LCSS	Samp Batc Analysis I Result ND ND ND 1.0 Samp Batc Analysis I	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686 Date: 7/	BLK 564 11/2022 SPK value 1.000 S 564 11/2022	F SPK Ref Val Tes F	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103 ttCode: EF RunNo: 89 SeqNo: 31	PA Method 0366 179427 LowLimit 70 PA Method 0366 179428	8021B: Volat Units: mg/K HighLimit 130 8021B: Volat Units: mg/K	(g %RPD iles		
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte	mb-68664 PBS 7/10/2022 hofluorobenzene LCS-68664 LCSS	Samp Batc Analysis I Result ND ND ND 1.0 Samp Batc Analysis I Result	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686 Date: 7/ PQL	BLK 564 11/2022 SPK value 1.000 S 564 11/2022 SPK value	F SPK Ref Val Tes F SPK Ref Val	tCode: EF RunNo: 89 SeqNo: 31 %REC 103 tCode: EF RunNo: 89 SeqNo: 31 %REC	24 Method 3366 179427 LowLimit 70 24 Method 3366 179428 LowLimit	8021B: Volat Units: mg/K HighLimit 130 8021B: Volat Units: mg/K HighLimit	(g %RPD iles		
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	mb-68664 PBS 7/10/2022 hofluorobenzene LCS-68664 LCSS	Samp Batc Analysis I Result ND ND ND 1.0 Samp Batc Analysis I Result 0.92	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686 Date: 7/ PQL 0.025 0.050 0.050	BLK 564 11/2022 SPK value 1.000 S 564 11/2022 SPK value 1.000	F SPK Ref Val Tes SPK Ref Val 0	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103 ttCode: EF RunNo: 89 SeqNo: 31 %REC 92.2	PA Method 9366 179427 LowLimit 70 PA Method 9366 179428 LowLimit 80	8021B: Volat Units: mg/K HighLimit 130 8021B: Volat Units: mg/K HighLimit 120	(g %RPD iles		
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	mb-68664 PBS 7/10/2022 hofluorobenzene LCS-68664 LCSS	Samp Batc Analysis I Result ND ND ND 1.0 Samp Batc Analysis I Result 0.92 0.99	h ID: 686 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: LC h ID: 686 Date: 7/ PQL 0.025 0.050	BLK 564 11/2022 SPK value 1.000 S 564 11/2022 SPK value 1.000 1.000	F SPK Ref Val	ttCode: EF RunNo: 89 SeqNo: 31 %REC 103 ttCode: EF RunNo: 89 SeqNo: 31 %REC 92.2 98.8	PA Method 9366 179427 LowLimit 70 PA Method 9366 179428 LowLimit 80 80 80	8021B: Volat Units: mg/K HighLimit 130 8021B: Volat Units: mg/K HighLimit 120 120	(g %RPD iles		

Qualifiers:

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

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

2207184

18-Jul-22

Client: Project:	Vertex Re Cooper Ex			Inc.									
Sample ID:	2207184-031ams	Samp ⁻	Гуре: МS	5	Tes	tCode: EF	PA Method	8021B: Volati	iles				
Client ID:	WS22-08 8-12	Batc	h ID: 686	664	F	RunNo: 8 9	9366						
Prep Date:	7/10/2022	Analysis [Date: 7/	11/2022	Ş	SeqNo: 31	179431	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual		
Benzene		0.83	0.025	0.9823		84.5	68.8	120	70111 D		Quai		
Toluene		0.90	0.049	0.9823	0	91.3	73.6	124					
Ethylbenzene		0.92	0.049	0.9823	0	93.3	72.7	129					
Xylenes, Total		2.8	0.098	2.947	0	94.1	75.7	126					
	nofluorobenzene	1.0		0.9823		103	70	130					
Sample ID:	2207184-031amsd	Samp	Гуре: МS	5D	Tes	tCode: EF	PA Method	8021B: Volati	iles				
Client ID:	WS22-08 8-12	Batc	h ID: 686	664	F	RunNo: 8 9	9366						
Prep Date:	7/10/2022	Analysis [Date: 7/ *	11/2022	5	SeqNo: 31	179432	Units: mg/K	ts: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.92	0.025	0.9823	0	93.5	68.8	120	10.1	20			
Toluene		0.97	0.049	0.9823	0	98.8	73.6	124	7.91	20			
Ethylbenzene		0.98	0.049	0.9823	0	100	72.7	129	7.06	20			
Xylenes, Total		3.0	0.098	2.947	0	101	75.7	126	7.09	20			
Surr: 4-Brom	nofluorobenzene	1.0		0.9823		105	70	130	0	0			
Sample ID:	lcs-68625	Samp	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles				
Client ID:	LCSS	Batc	h ID: 686	625	F	RunNo: 89	9377						
Prep Date:	7/7/2022	Analysis [Date: 7/ *	11/2022	S	SeqNo: 31	179595	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.91	0.025	1.000	0	91.4	80	120					
Toluene		0.92	0.050	1.000	0	92.0	80	100					
Ethylbenzene						02.0	00	120					
		0.92	0.050	1.000	0	91.7	80 80	120 120					
Xylenes, Total		0.92 2.7	0.050 0.10	1.000 3.000	0 0								
	nofluorobenzene				-	91.7	80	120					
		2.7 0.85		3.000 1.000	0	91.7 91.2 84.7	80 80 70	120 120	iles				
		2.7 0.85 Samp	0.10	3.000 1.000	0 Tes	91.7 91.2 84.7	80 80 70 PA Method	120 120 130	iles				
Surr: 4-Brom Sample ID:	mb-68625	2.7 0.85 Samp	0.10 Гуре: МЕ h ID: 686	3.000 1.000 BLK 525	0 Tes F	91.7 91.2 84.7 tCode: EF	80 80 70 PA Method 9377	120 120 130					
Surr: 4-Brom Sample ID: Client ID:	mb-68625 PBS	2.7 0.85 Samp ⁻ Batc	0.10 Гуре: МЕ h ID: 686	3.000 1.000 BLK 525 11/2022	0 Tes F	91.7 91.2 84.7 tCode: EF RunNo: 8 9	80 80 70 PA Method 9377	120 120 130 8021B: Volati		RPDLimit	Qual		
Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	mb-68625 PBS	2.7 0.85 Samp Batc Analysis I	0.10 Type: ME h ID: 686 Date: 7 /	3.000 1.000 BLK 525 11/2022	0 Tes F	91.7 91.2 84.7 tCode: EF RunNo: 89 SeqNo: 31	80 80 70 PA Method 9377 179596	120 120 130 8021B: Volati Units: mg/K	g	RPDLimit	Qual		
Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	mb-68625 PBS	2.7 0.85 Samp Batc Analysis I Result	0.10 Type: ME h ID: 686 Date: 7/ PQL	3.000 1.000 BLK 525 11/2022	0 Tes F	91.7 91.2 84.7 tCode: EF RunNo: 89 SeqNo: 31	80 80 70 PA Method 9377 179596	120 120 130 8021B: Volati Units: mg/K	g	RPDLimit	Qual		
Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	mb-68625 PBS	2.7 0.85 Samp Batc Analysis I Result ND	0.10 Type: ME h ID: 686 Date: 7/ PQL 0.025	3.000 1.000 BLK 525 11/2022	0 Tes F	91.7 91.2 84.7 tCode: EF RunNo: 89 SeqNo: 31	80 80 70 PA Method 9377 179596	120 120 130 8021B: Volati Units: mg/K	g	RPDLimit	Qual		
Surr: 4-Brom Sample ID: Client ID: Prep Date:	mb-68625 PBS	2.7 0.85 Samp Batc Analysis I Result ND ND	0.10 Fype: ME h ID: 686 Date: 7/ PQL 0.025 0.050	3.000 1.000 BLK 525 11/2022	0 Tes F	91.7 91.2 84.7 tCode: EF RunNo: 89 SeqNo: 31	80 80 70 PA Method 9377 179596	120 120 130 8021B: Volati Units: mg/K	g	RPDLimit	Qual		

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank В

Е Estimated value

J Analyte detected below quantitation limits

Р

Sample pH Not In Range

Reporting Limit RL

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WO#: 2207184 18-Jul-22

Client:Vertex ReProject:Cooper Ex			Inc.							
Sample ID: 2207184-008ams	Samp	Type: MS	;	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: WS22-02 12-16	Batc	h ID: 686	625	F	RunNo: 89	377				
Prep Date: 7/7/2022	Analysis I	Date: 7/ *	11/2022	S	SeqNo: 31	79599	Units: mg/K	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9911	0	86.4	68.8	120			
Toluene	0.89	0.050	0.9911	0	89.5	73.6	124			
Ethylbenzene	0.88	0.050	0.9911	0	89.0	72.7	129			
Xylenes, Total	2.6	0.099	2.973	0	88.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9911		82.7	70	130			
Sample ID: 2207184-008amsd	Samp	Type: MS	D	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: WS22-02 12-16	Batc	h ID: 686	625	F	RunNo: 89	377				
Prep Date: 7/7/2022	Analysis I	Date: 7/	11/2022	S	SeqNo: 31	79600	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9785	0	84.7	68.8	120	3.31	20	
Toluene	0.86	0.049	0.9785	0	88.0	73.6	124	3.04	20	
Ethylbenzene	0.86	0.049	0.9785	0	88.3	72.7	129	2.04	20	
Xylenes, Total	2.6	0.098	2.935	0	87.1	75.7	126	2.44	20	
Surr: 4-Bromofluorobenzene	0.80		0.9785		82.1	70	130	0	0	
Sample ID: Ics-68658	Samp	Type: LC	S	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 686	658	F	RunNo: 89	377				
Prep Date: 7/9/2022	Analysis I	Date: 7/	11/2022	\$	SeqNo: 31	79619	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.7	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.7	70	130			
Sample ID: mb-68658	Samp	Туре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 686	558	F	RunNo: 89	377				
Prep Date: 7/9/2022	Analysis I	Date: 7/	11/2022	S	SeqNo: 31	79620	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.4	70	130			

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

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2207184

18-Jul-22

ENVIRONMENTAL ANALYSIS LABORATORY		Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com					Page 468 mple Log-In Check List
	ex Resources rices, Inc.	Work Order Num	ber: 22	07184			RcptNo: 1
Received By: Jua	in Rojas	7/7/2022 7:45:00 AI	м		Guar	ren g	
Completed By: Ch	eyenne Cason 7-7-72	7/7/2022 7:55:06 AI	И		Cherry	L	
Chain of Custody							
1. Is Chain of Custody			Vo		No		Not Present
2. How was the sampl				urier	NO		
Log In							
and the second se	de to cool the samples?		Yes		No		
4. Were all samples re-	ceived at a temperature of	of >0° C to 6.0°C	Yes		No		
5. Sample(s) in proper	container(s)?		Yes		No		
6. Sufficient sample vol	ume for indicated test(s)	?	Yes		No		
	VOA and ONG) properly		Yes		No		
8. Was preservative ad			Yes		No		NA 🗌
9. Received at least 1 v	ial with headspace <1/4"	for AQ VOA?	Yes		No	п	NA 🔽
10. Were any sample co			Yes		No		
11. Does paperwork mate			Yes		No		# of preserved bottles checked for pH:
(Note discrepancies of 12. Are matrices correctly				-	14		(<2 or >12 unless noted)
13. Is it clear what analys		ustody?			No		Adjusted?
14. Were all holding time			Yes Yes		No No		Checked by: JA717122
(If no, notify custome	r for authorization.)		165		NO	/	Unecked by. J. TT4122
Special Handling (it	applicable)						
15. Was client notified of	all discrepancies with th	is order?	Yes		No		NA 🔽
Person Notified	:	Date:	_				
By Whom:	1	Via:	eMa	ail 🗍 P	hone 🗍	Fax	In Person
Regarding:	[*					1.002	
Client Instruction	ons:						
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Tem 1 0.4	and a present the second se	I Intact Seal No	Seal Da	ate	Signed B	iy i	

Page 1 of 1

Client: Ve							1		1	I VI		T'ANA	00	NINACOL.	A A	
	Vertex	(606)				A Rush 5 Day				ANAL	ス て て	ANALYSTS		YSTS LABORATORY	R OR	
				Project Name:	1.10						Maller	ironme	www.hallenvironmental.com		5	
Mailing Address:	2	File		agoo	Previ	xoustion		4901	4901 Hawkins NE	ns NE		uanbno	que, NI	Albuquerque, NM 87109): 8/3
				Project #:			_	Tel.	505-345-3975	5-397		Fax 50	505-345-4107	4107		0/20
Phone #:				ult-o	00/13-	- 64					Anal		Request			22 1
email or Fax#:				Project Manager	ger:		(1	(0	1		*O		(tu			0:49
QA/QC Package:		Level 4 (Full Validation)	alidation)	MON	vica Reptin	pin	208) s			SMIS	PO₄, S		əsdA\ti			0:41 AN
Accreditation:	□ Az Co	Az Compliance		Sampler: F.	Fernando	2 advinte	BM.			0228	' ⁷ 0		Jəse			1
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Date Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.		08:H9T 9 1808	EDB (W	d sHA9	RCRA :	/) 0928	2) 0728 D letoT			-
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215 10:20	Soil	10 -225M	N-8	Hotjar		202)	2			>					
715 10:25	Soil	10-225m	8-12	4 of jor	JU	604003	7	2			>					
715 10:30	Soil	LUS 22-01	N2-16	Hozbar	Ice	CEH	2	2		-	>					-
7/5 10:35	Soil)	20-2250	5-0	HOtjer	Ice	305	2	>		1-1	>					
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1/5 13:35 GOIN WX72-11 V-8	402jour 100	140	21	/			5				
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July 19, 2022

Monica Peppin Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Cooper Excavation

OrderNo.: 2207417

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207417-001

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-48 17' Collection Date: 7/6/2022 8:30:00 AM Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 3:43:30 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/14/2022 3:43:30 PM
Surr: DNOP	78.4	51.1-141	%Rec	1	7/14/2022 3:43:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/15/2022 12:29:00 PM
Surr: BFB	86.0	37.7-212	%Rec	1	7/15/2022 12:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 12:29:00 PM
Toluene	ND	0.047	mg/Kg	1	7/15/2022 12:29:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/15/2022 12:29:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/15/2022 12:29:00 PM
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	7/15/2022 12:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	500	59	mg/Kg	20	7/16/2022 8:18:34 PM

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

Qualifiers:

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

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

Analyte detected in the associated Method Blank в

Е Estimated value

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

RL Reporting Limit Page 1 of 19

н Holding times for preparation or analysis exceeded

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-49 17' **Project:** Cooper Excavation Collection Date: 7/6/2022 8:40:00 AM Lab ID: 2207417-002 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 3:57:24 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/14/2022 3:57:24 PM Surr: DNOP 80.3 51.1-141 %Rec 1 7/14/2022 3:57:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 1:28:00 PM 4.8 mg/Kg 1 Surr: BFB 82.7 37.7-212 %Rec 1 7/15/2022 1:28:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 7/15/2022 1:28:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/15/2022 1:28:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/15/2022 1:28:00 PM Xylenes, Total ND 0.095 mg/Kg 1 7/15/2022 1:28:00 PM Surr: 4-Bromofluorobenzene 81.8 70-130 %Rec 1 7/15/2022 1:28:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/16/2022 8:55:36 PM 100 60 20

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

Qualifiers:

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

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

Page 2 of 19

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-50 17' **Project:** Cooper Excavation Collection Date: 7/6/2022 8:50:00 AM Lab ID: 2207417-003 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 4:11:37 PM Motor Oil Range Organics (MRO) 7/14/2022 4:11:37 PM ND 50 mg/Kg 1 Surr: DNOP 77.6 51.1-141 %Rec 1 7/14/2022 4:11:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 1:48:00 PM 4.6 mg/Kg 1 Surr: BFB 83.2 37.7-212 %Rec 1 7/15/2022 1:48:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/15/2022 1:48:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 7/15/2022 1:48:00 PM Ethylbenzene ND 0.046 mg/Kg 1 7/15/2022 1:48:00 PM Xylenes, Total ND 0.092 mg/Kg 1 7/15/2022 1:48:00 PM Surr: 4-Bromofluorobenzene 83.8 70-130 %Rec 1 7/15/2022 1:48:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/16/2022 9:32:39 PM 120 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 19

Date Reported: 7/19/2022

7/16/2022 9:45:00 PM

20

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-51 17' **Project: Cooper Excavation** Collection Date: 7/6/2022 9:00:00 AM Lab ID: 2207417-004 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 4:25:30 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/14/2022 4:25:30 PM Surr: DNOP 77.4 51.1-141 %Rec 1 7/14/2022 4:25:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 7/15/2022 2:08:00 PM mg/Kg 1 Surr: BFB 84.4 37.7-212 %Rec 1 7/15/2022 2:08:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/15/2022 2:08:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/15/2022 2:08:00 PM Ethylbenzene ND 0.047 mg/Kg 1 7/15/2022 2:08:00 PM Xylenes, Total ND 0.095 mg/Kg 1 7/15/2022 2:08:00 PM Surr: 4-Bromofluorobenzene 83.8 70-130 %Rec 1 7/15/2022 2:08:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg

120

60

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

Qualifiers:

Chloride

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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 19

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-52 17' **Project:** Cooper Excavation Collection Date: 7/6/2022 9:10:00 AM Lab ID: 2207417-005 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 4:39:32 PM Motor Oil Range Organics (MRO) 7/14/2022 4:39:32 PM ND 49 mg/Kg 1 Surr: DNOP 64.1 51.1-141 %Rec 1 7/14/2022 4:39:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 2:28:00 PM 4.6 mg/Kg 1 Surr: BFB 82.7 37.7-212 %Rec 1 7/15/2022 2:28:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/15/2022 2:28:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 7/15/2022 2:28:00 PM Ethylbenzene ND 0.046 mg/Kg 1 7/15/2022 2:28:00 PM Xylenes, Total ND 0.092 mg/Kg 1 7/15/2022 2:28:00 PM Surr: 4-Bromofluorobenzene 83.6 70-130 %Rec 1 7/15/2022 2:28:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/16/2022 9:57:21 PM 120 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 19

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-53 17' **Project:** Cooper Excavation Collection Date: 7/6/2022 9:20:00 AM Lab ID: 2207417-006 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 4:53:54 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/14/2022 4:53:54 PM Surr: DNOP 77.0 51.1-141 %Rec 1 7/14/2022 4:53:54 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 2:48:00 PM 4.8 mg/Kg 1 Surr: BFB 84.7 37.7-212 %Rec 1 7/15/2022 2:48:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 7/15/2022 2:48:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/15/2022 2:48:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/15/2022 2:48:00 PM Xylenes, Total ND 0.096 mg/Kg 1 7/15/2022 2:48:00 PM Surr: 4-Bromofluorobenzene 83.6 70-130 %Rec 1 7/15/2022 2:48:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/16/2022 10:09:42 PM 120 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 19

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207417-007

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: BS22-54 17'

 Collection Date: 7/6/2022 9:30:00 AM

 Matrix: SOIL
 Received Date: 7/12/2022 7:20:00 AM

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Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 5:36:45 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 5:36:45 PM
Surr: DNOP	75.3	51.1-141	%Rec	1	7/14/2022 5:36:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2022 3:08:00 PM
Surr: BFB	85.3	37.7-212	%Rec	1	7/15/2022 3:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 3:08:00 PM
Toluene	ND	0.049	mg/Kg	1	7/15/2022 3:08:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2022 3:08:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/15/2022 3:08:00 PM
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	7/15/2022 3:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	63	60	mg/Kg	20	7/16/2022 10:22:03 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 19

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-55 17' Collection Date: 7/6/2022 9:40:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207417-008	Matrix: SOIL	Rece	ived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 5:50:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 5:50:51 PM
Surr: DNOP	74.3	51.1-141	%Rec	1	7/14/2022 5:50:51 PM
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/15/2022 3:28:00 PM
Surr: BFB	83.9	37.7-212	%Rec	1	7/15/2022 3:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 3:28:00 PM
Toluene	ND	0.047	mg/Kg	1	7/15/2022 3:28:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/15/2022 3:28:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/15/2022 3:28:00 PM
Surr: 4-Bromofluorobenzene	84.6	70-130	%Rec	1	7/15/2022 3:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	7/16/2022 10:34:24 PM

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

Qualifiers:

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

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

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H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207417

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2022 Client Sample ID: BS22-56 4' Collection Date: 7/6/2022 9:50:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207417-009	Matrix: SOIL	Rece	eived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 6:05:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 6:05:16 PM
Surr: DNOP	79.2	51.1-141	%Rec	1	7/14/2022 6:05:16 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/15/2022 3:48:00 PM
Surr: BFB	86.9	37.7-212	%Rec	1	7/15/2022 3:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/15/2022 3:48:00 PM
Toluene	ND	0.050	mg/Kg	1	7/15/2022 3:48:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/15/2022 3:48:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/15/2022 3:48:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	7/15/2022 3:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	190	60	mg/Kg	20	7/16/2022 10:46:45 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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H Holding times for preparation or analysis exceeded

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207417-010

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-57 4' Collection Date: 7/6/2022 10:00:00 AM Received Date: 7/12/2022 7:20:00 AM

	Soll	need	nica Dutei	1/12/2	022 /.20.00 / H.I
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 6:19:31 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 6:19:31 PM
Surr: DNOP	74.8	51.1-141	%Rec	1	7/14/2022 6:19:31 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2022 4:28:00 PM
Surr: BFB	82.3	37.7-212	%Rec	1	7/15/2022 4:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	7/15/2022 4:28:00 PM
Toluene	ND	0.049	mg/Kg	1	7/15/2022 4:28:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2022 4:28:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2022 4:28:00 PM
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	7/15/2022 4:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	94	60	mg/Kg	20	7/16/2022 10:59:06 PM

Matrix: SOIL

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

Qualifiers:

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207417-011

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-58 4' Collection Date: 7/6/2022 10:10:00 AM Received Date: 7/12/2022 7:20:00 AM

	Soll	11000	civea Dutei	1/12/2	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 6:33:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 6:33:56 PM
Surr: DNOP	73.1	51.1-141	%Rec	1	7/14/2022 6:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 4:48:00 PM
Surr: BFB	85.3	37.7-212	%Rec	1	7/15/2022 4:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 4:48:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 4:48:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 4:48:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/15/2022 4:48:00 PM
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	7/15/2022 4:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/16/2022 11:11:27 PM

Matrix: SOIL

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

Qualifiers:

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-59 4' Collection Date: 7/6/2022 10:20:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207417-012	Matrix: SOIL	Rece	eived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 6:48:13 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 6:48:13 PM
Surr: DNOP	78.5	51.1-141	%Rec	1	7/14/2022 6:48:13 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 5:07:00 PM
Surr: BFB	85.6	37.7-212	%Rec	1	7/15/2022 5:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 5:07:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 5:07:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 5:07:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/15/2022 5:07:00 PM
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	7/15/2022 5:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	80	60	mg/Kg	20	7/16/2022 11:23:47 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-60 12' Collection Date: 7/6/2022 10:30:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207417-013	Matrix: SOIL	Rece	eived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 7:02:36 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 7:02:36 PM
Surr: DNOP	72.3	51.1-141	%Rec	1	7/14/2022 7:02:36 PM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 5:27:00 PM
Surr: BFB	82.8	37.7-212	%Rec	1	7/15/2022 5:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 5:27:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 5:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 5:27:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/15/2022 5:27:00 PM
Surr: 4-Bromofluorobenzene	81.7	70-130	%Rec	1	7/15/2022 5:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	150	60	mg/Kg	20	7/17/2022 12:00:48 AM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper Excavation

2207417-014

Analytical Report Lab Order 2207417

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-61 12' Collection Date: 7/6/2022 10:40:00 AM Received Date: 7/12/2022 7:20:00 AM

	Soll	11000	cived Duter		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 7:16:56 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/14/2022 7:16:56 PM
Surr: DNOP	70.7	51.1-141	%Rec	1	7/14/2022 7:16:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/15/2022 5:47:00 PM
Surr: BFB	80.7	37.7-212	%Rec	1	7/15/2022 5:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	7/15/2022 5:47:00 PM
Toluene	ND	0.046	mg/Kg	1	7/15/2022 5:47:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/15/2022 5:47:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	7/15/2022 5:47:00 PM
Surr: 4-Bromofluorobenzene	81.4	70-130	%Rec	1	7/15/2022 5:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	60	mg/Kg	20	7/17/2022 12:13:09 AM

Matrix: SOIL

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

Qualifiers:

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

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

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Client: Project:		ex Resources Servi er Excavation	ces, Inc.								
Sample ID:	MB-68832	SampType	mblk	Tes	tCode: EPA Me	thod	300.0: Anions	i			
Client ID:	PBS	Batch ID:	68832	RunNo: 89565							
Prep Date:	7/16/2022	Analysis Date:	7/16/2022	Ş	SeqNo: 318809	4	Units: mg/K	g			
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5								
Sample ID:	LCS-68832	SampType	lcs	Tes	tCode: EPA Me	thod	300.0: Anions	i			
Client ID:	LCSS	Batch ID:	68832	F	RunNo: 89565						
Prep Date:	7/16/2022	Analysis Date:	7/16/2022	S	SeqNo: 318809	5	Units: mg/K	g			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5 15.00	0	94.4	90	110				

Qualifiers:

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

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19-Jul-22

WO#:

	esources Services, In xcavation	с.							
Sample ID: MB-68752	SampType: MBLK		Tes	tCode: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 68752		R	RunNo: 89	486				
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86430	Units: mg/Kg	9		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 8.1	10.00		80.8	51.1	141			
	0.1	10.00		00.0	51.1	141			
Sample ID: LCS-68752	SampType: LCS		Tes	tCode: EP	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 68752			RunNo: 89					
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86431	Units: mg/Kg	9		
Analyte			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	44 15 3.8	50.00 5.000	0	88.3 76.1	64.4 51.1	127 141			
	3.0	5.000		70.1	51.1	141			
Sample ID: 2207417-006AMS	SampType: MS		Tes	tCode: EP	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: BS22-53 17'	Batch ID: 68752		R	RunNo: 89	9486				
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86439	Units: mg/Kg	9		
Analyte		PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	41 15 3.3	49.55 4.955	0	82.6 67.5	36.1 51.1	154 141			
	3.3	4.900		07.5	51.1	141			
Sample ID: 2207417-006AMSE	SampType: MSD		Tes	tCode: EP	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: BS22-53 17'	Batch ID: 68752		R	RunNo: 89	9486				
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86440	Units: mg/Kg	9		
Analyte			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	43 15	50.25	0	85.2	36.1	154	4.50	33.9	
	3.5	5.025		69.6	51.1	141	0	0	
Sample ID: MB-68751	SampType: MBLK	ζ.	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 68751		R	RunNo: 89	486				
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86456	Units: %Rec			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3	10.00		83.3	51.1	141			
Sample ID: LCS-68751	SampType: LCS		Tes	tCode: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 68751		R	RunNo: 89	486		_		
Prep Date: 7/13/2022	Analysis Date: 7/14/2	2022	S	SeqNo: 31	86457	Units: %Rec			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-						-			

Qualifiers:

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

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19-Jul-22

WO#:

2207417

19-Jul-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Resources Cooper Excavati		, Inc.							
Sample ID: LCS-68	3 751 Sar	прТуре: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	B	atch ID: 68	751	F	RunNo: 89	9486				
Prep Date: 7/13/2	2022 Analys	s Date: 7	/14/2022	S	SeqNo: 31	86457	Units: %Rec			
Analyte	Resul	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.0	51.1	141			

Qualifiers:

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

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19-Jul-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	ertex Resources a coper Excavation	,	Inc.							
Sample ID: mb-68728	Samp	Туре: МЕ	BLK	Tes	tCode: EF	A Method	8015D: Gaso	line Range	•	
Client ID: PBS	Bate	ch ID: 687	728	F	RunNo: 8 9	532				
Prep Date: 7/12/2022	2 Analysis	Date: 7/	15/2022	5	SeqNo: 31	86586	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) ND	5.0								
Surr: BFB	830		1000		83.0	37.7	212			

Qualifiers:

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

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Released to Imaging: 2/24/2023 2:37:49 PM

Client: Project:	Vertex Re Cooper Ez		ervices,	Inc.							
Sample ID:	mb-68728	SampT	Гуре: МВ	LK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	PBS	Batcl	h ID: 687	28	F	RunNo: 89	532				
Prep Date:	7/12/2022	Analysis E	Date: 7/1	15/2022	S	SeqNo: 31	86634	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromo	ofluorobenzene	0.85		1.000		84.7	70	130			
Sample ID:	2207417-001ams	SampT	Гуре: МS	;	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	BS22-48 17'	Batcl	h ID: 687	28	F	RunNo: 89	532				
Prep Date:	7/12/2022	Analysis E	Date: 7/*	15/2022	S	SeqNo: 31	86637	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.77	0.023	0.9320	0	82.5	68.8	120			
Toluene		0.78	0.047	0.9320	0	83.8	73.6	124			
Ethylbenzene		0.78	0.047	0.9320	0	84.0	72.7	129			
Xylenes, Total		2.3	0.093	2.796	0	83.4	75.7	126			
Surr: 4-Bromo	ofluorobenzene	0.79		0.9320		84.3	70	130			
Sample ID:	2207417-001amsd	SampT	Гуре: МS	D	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	BS22-48 17'	Batcl	h ID: 687	28	F	RunNo: 89	532				
Prep Date:	7/12/2022	Analysis E	Date: 7/1	15/2022	5	SeqNo: 31	86638	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.78	0.024	0.9425	0	82.7	68.8	120	1.36	20	
Toluene		0.80	0.047	0.9425	0	84.9	73.6	124	2.43	20	
Ethylbenzene		0.80	0.047	0.9425	0	85.0	72.7	129	2.28	20	
Xylenes, Total		2.4	0.094	2.828	0	84.1	75.7	126	1.96	20	
Surr: 4-Bromo	ofluorobenzene	0.78		0.9425		83.3	70	130	0	0	

Qualifiers:

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

2207417

19-Jul-22

WO#:

ANAL	RONMENT YSIS RATORY	AL	TE	L: 505-345	ental Anal <u></u> 49 Albuquer -3975 FAX ww.hallenv	01 Haw. que, NA : 505-34	kins NE 1 87109 15-4107	Sar	ample Log-In Check List				
Client Name:	Vertex Res Services, I		Work	Order Nu	mber: 220	7417			RcptNo: 1				
Received By:	Cheyenne	e Cason	7/12/20	22 7:20:00	0 AM		Che	l					
Completed By:	Cheyenne	e Cason	7/12/20	22 9:13:3	1 AM		C la	1					
Reviewed By:	Jn71	12/22					C.						
Chain of Cus	<u>tody</u>												
1. Is Chain of C	ustody comp	lete?			Yes		N	•	Not Present				
2. How was the	sample deliv	vered?			Cou	irier							
Log In													
3. Was an attem	pt made to o	cool the sam	ples?		Yes		N	•					
4. Were all samp	oles received	l at a temper	ature of >0° C	to 6.0°C	Yes		N	•					
5. Sample(s) in p	oroper conta	iner(s)?			Yes		N	•					
6. Sufficient sam	ple volume f	or indicated t	test(s)?		Yes		No						
7. Are samples (except VOA	and ONG) pr	operly preserve	d?	Yes	~	No						
8. Was preservat	tive added to	bottles?			Yes		No		NA 🗌				
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No		NA 🗹				
10. Were any san	nple containe	ers received l	oroken?		Yes		N		# of preserved				
11. Does paperwo (Note discrepa			()		Yes	~	No		bottles checked for pH: (<2 or ≽12 unless noted)				
12. Are matrices c					Yes		No		Adjusted?				
13. Is it clear what					Yes								
14. Were all holdin (If no, notify cu)		Yes		No		Checked by: LPG 7.12.3				
Special Handli	ng (if app	licable)											
15. Was client not	tified of all di	screpancies	with this order?		Yes		N		NA 🗹				
Person	Notified:			Date	e:								
By Who	m:			Via:	🗌 eM	ail 🗌	Phone [Fax	In Person				
Regardi	ng:												
Client In	structions:												
16. Additional ren	narks:												
17. Cooler Inform			La State	2-2-2									
Cooler No	Temp °C 0.6	Condition Good	Seal Intact Not Present	Seal No	Seal D	ate	Signed	Ву					
2	0.9	Good	Not Present										
3	2.5	Good	Not Present			-							

Page 1 of 1

	I urn-Around Time:			I		ININ'T I	ENVIDONMEN	ENTTAL
Client: Vertex (EOC)	Standard A Rush	5 DAVY			1	I SISK	LABORATOR	ATORY
	Project Name:			Ŵ	w hallen	www.hallenvironmental.com	tal com	
Mailing Address: On Pole	LAN L	readtan	4901	4901 Hawkins NE		puquerq	Albuquerque, NM 87109	0
	Project #:	NU- 0	Tel. 5	505-345-3975	3975		505-345-4107	
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email or Fax#:	Project Manager:		1.1		*O		(ìn	
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-		HEAL	08:1 P	/) 8C d sHA	АЯС , F, E	s) 027 \) 097	O listo	
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11 8622-56 4'	402 Jar Ice	1200	11		F			
10:00 Soil 8322-57 4'	Horlar Ice	010	11		\sum			
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	tracted to other accredited laboratori	es. This serves as notice of this	possibility. Any s	ub-contract	ed data will b	e clearly not	ated on the analytic	cal report.

Released to Imaging: 2/24/2023 2:37:49 PM

Time:	Rush 5 MM THE ENVIRONMENTAL		The Decretion 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	-00/03 - 04 Analysis Request	() () ()	PO₄, S PO₄, S PO₄, S	Lesen 100 ²⁺ 100 ²⁺ 100 ²⁺ 100 ²⁺	VOY 03' 912 912 912 928 928 928 928 928 928 928 928 928 92	(¹ ,	le HEAL No.	Ice 013 / 1 7,	H Cc						VIA: Date Time Remarks: MANO 7/10 Divert will to EOG	via: 1 Date Time
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Chain-of-Custody Record	Client Nerter (EOG))	Mailing Address: On File		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	(be)		Date Time Matrix Sample Name	1 6 10:30 coil R522-60 12'	1/10 NO:40 00:11 0522-61 12'						C 12.50	M/2 PMD DAMALLAND



July 20, 2022

Monica Peppin Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Cooper AHH 001

OrderNo.: 2207418

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 82 sample(s) on 7/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-62 20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 7:55:00 AM Lab ID: 2207418-001 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 7:31:12 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/14/2022 7:31:12 PM Surr: DNOP 79.1 51.1-141 %Rec 1 7/14/2022 7:31:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 7/15/2022 6:07:00 PM mg/Kg 1 Surr: BFB 83.1 37.7-212 %Rec 1 7/15/2022 6:07:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/15/2022 6:07:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/15/2022 6:07:00 PM Ethylbenzene ND 0.047 mg/Kg 1 7/15/2022 6:07:00 PM Xylenes, Total ND 0.095 mg/Kg 1 7/15/2022 6:07:00 PM Surr: 4-Bromofluorobenzene 82.0 70-130 %Rec 1 7/15/2022 6:07:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/17/2022 12:50:10 AM 82 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 97

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-002

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-63 20' Collection Date: 7/8/2022 7:55:00 AM Received Date: 7/12/2022 7:20:00 AM

Lub ID: 2207 110 002	Muuliki Boll	need	liveu Dutei	022 7.20.00 7 HVI	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 7:45:35 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 7:45:35 PM
Surr: DNOP	96.0	51.1-141	%Rec	1	7/14/2022 7:45:35 PM
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 6:27:00 PM
Surr: BFB	84.8	37.7-212	%Rec	1	7/15/2022 6:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 6:27:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 6:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 6:27:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/15/2022 6:27:00 PM
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	7/15/2022 6:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	74	60	mg/Kg	20	7/17/2022 1:27:12 AM

Matrix: SOIL

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

Qualifiers:

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

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 97

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-003

Analytical Report Lab Order 2207418

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2022 Client Sample ID: BS22-64 20' Collection Date: 7/8/2022 8:00:00 AM

Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 7:59:58 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2022 7:59:58 PM
Surr: DNOP	101	51.1-141	%Rec	1	7/14/2022 7:59:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/15/2022 6:47:00 PM
Surr: BFB	81.3	37.7-212	%Rec	1	7/15/2022 6:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	7/15/2022 6:47:00 PM
Toluene	ND	0.046	mg/Kg	1	7/15/2022 6:47:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/15/2022 6:47:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	7/15/2022 6:47:00 PM
Surr: 4-Bromofluorobenzene	80.9	70-130	%Rec	1	7/15/2022 6:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	76	60	mg/Kg	20	7/17/2022 2:28:58 AM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-65 20' Collection Date: 7/8/2022 8:00:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-004	Matrix: SOIL	Rece	eived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 8:14:15 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 8:14:15 PM
Surr: DNOP	95.6	51.1-141	%Rec	1	7/14/2022 8:14:15 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/15/2022 7:08:00 PM
Surr: BFB	84.9	37.7-212	%Rec	1	7/15/2022 7:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	7/15/2022 7:08:00 PM
Toluene	ND	0.046	mg/Kg	1	7/15/2022 7:08:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/15/2022 7:08:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	7/15/2022 7:08:00 PM
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	7/15/2022 7:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	71	60	mg/Kg	20	7/17/2022 2:41:19 AM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-005

Analytical Report Lab Order 2207418

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2022 Client Sample ID: BS22-66 20' Collection Date: 7/8/2022 8:05:00 AM

Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 8:28:28 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2022 8:28:28 PM
Surr: DNOP	96.0	51.1-141	%Rec	1	7/14/2022 8:28:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 7:27:00 PM
Surr: BFB	78.8	37.7-212	%Rec	1	7/15/2022 7:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 7:27:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 7:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 7:27:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/15/2022 7:27:00 PM
Surr: 4-Bromofluorobenzene	80.6	70-130	%Rec	1	7/15/2022 7:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	69	60	mg/Kg	20	7/17/2022 2:53:39 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 97

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-006

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-67 20' Collection Date: 7/8/2022 8:05:00 AM Received Date: 7/12/2022 7:20:00 AM

Lub ID: 2207 110 000	Muuliki Boll	Received Dute: #12/2022 1.20.00 1101			
Analyses	Result	RL Qual Units		DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 12:25:23 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2022 12:25:23 PM
Surr: DNOP	63.5	51.1-141	%Rec	1	7/14/2022 12:25:23 PM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/15/2022 9:27:00 PM
Surr: BFB	81.8	37.7-212	%Rec	1	7/15/2022 9:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	7/15/2022 9:27:00 PM
Toluene	ND	0.046	mg/Kg	1	7/15/2022 9:27:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/15/2022 9:27:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	7/15/2022 9:27:00 PM
Surr: 4-Bromofluorobenzene	81.6	70-130	%Rec	1	7/15/2022 9:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	69	60	mg/Kg	20	7/17/2022 3:06:00 AM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-007

Analytical Report Lab Order 2207418

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2022 Client Sample ID: BS22-68 20' Collection Date: 7/8/2022 8:10:00 AM

Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: ED				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 1:38:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 1:38:27 PM
Surr: DNOP	74.9	51.1-141	%Rec	1	7/14/2022 1:38:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2022 10:26:00 PM
Surr: BFB	81.6	37.7-212	%Rec	1	7/15/2022 10:26:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/15/2022 10:26:00 PM
Toluene	ND	0.048	mg/Kg	1	7/15/2022 10:26:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2022 10:26:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/15/2022 10:26:00 PM
Surr: 4-Bromofluorobenzene	81.5	70-130	%Rec	1	7/15/2022 10:26:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	68	60	mg/Kg	20	7/17/2022 3:18:21 AM

Matrix: SOIL

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

Qualifiers:

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

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

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EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-69 20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:10:00 AM Lab ID: 2207418-008 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/14/2022 2:02:54 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/14/2022 2:02:54 PM Surr: DNOP 59.4 51.1-141 %Rec 1 7/14/2022 2:02:54 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 11:26:00 PM 4.9 mg/Kg 1 Surr: BFB 80.2 37.7-212 %Rec 1 7/15/2022 11:26:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/15/2022 11:26:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/15/2022 11:26:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/15/2022 11:26:00 PM Xylenes, Total ND 0.099 mg/Kg 1 7/15/2022 11:26:00 PM Surr: 4-Bromofluorobenzene 81.6 70-130 %Rec 1 7/15/2022 11:26:00 PM

65

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

mg/Kg

20

60

Р Sample pH Not In Range

RL Reporting Limit Page 8 of 97

Analyst: JTT

7/17/2022 3:30:41 AM

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-70 20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:15:00 AM Lab ID: 2207418-009 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/14/2022 2:27:18 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 7/14/2022 2:27:18 PM Surr: DNOP 54.0 51.1-141 %Rec 1 7/14/2022 2:27:18 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/15/2022 11:45:00 PM 4.8 mg/Kg 1 Surr: BFB 78.4 37.7-212 %Rec 1 7/15/2022 11:45:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 7/15/2022 11:45:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/15/2022 11:45:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/15/2022 11:45:00 PM Xylenes, Total ND 0.096 mg/Kg 1 7/15/2022 11:45:00 PM Surr: 4-Bromofluorobenzene 79.5 70-130 %Rec 1 7/15/2022 11:45:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/17/2022 3:43:02 AM ND 61 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-71 20' Collection Date: 7/8/2022 8:15:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-010	Matrix: SOIL	Received Date: 7/12/2022 7:20:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	EORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	7/14/2022 2:51:49 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/14/2022 2:51:49 PM
Surr: DNOP	58.6	51.1-141	%Rec	1	7/14/2022 2:51:49 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/16/2022 12:05:00 AM
Surr: BFB	83.5	37.7-212	%Rec	1	7/16/2022 12:05:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	7/16/2022 12:05:00 AM
Toluene	ND	0.047	mg/Kg	1	7/16/2022 12:05:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/16/2022 12:05:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/16/2022 12:05:00 AM
Surr: 4-Bromofluorobenzene	83.1	70-130	%Rec	1	7/16/2022 12:05:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	64	60	mg/Kg	20	7/17/2022 3:55:23 AM

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

Qualifiers:

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

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

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-72 20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:20:00 AM Lab ID: 2207418-011 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/14/2022 3:16:30 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/14/2022 3:16:30 PM Surr: DNOP 56.2 51.1-141 %Rec 1 7/14/2022 3:16:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 7/16/2022 12:25:00 AM mg/Kg 1 Surr: BFB 80.2 37.7-212 %Rec 1 7/16/2022 12:25:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 12:25:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/16/2022 12:25:00 AM Ethylbenzene ND 0.047 mg/Kg 1 7/16/2022 12:25:00 AM Xylenes, Total ND 0.094 mg/Kg 7/16/2022 12:25:00 AM 1 Surr: 4-Bromofluorobenzene 80.1 70-130 %Rec 1 7/16/2022 12:25:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/17/2022 4:07:43 AM 65 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 11 of 97

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-012

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-73 20' Collection Date: 7/8/2022 8:20:00 AM Received Date: 7/12/2022 7:20:00 AM

240 120 2207 110 012							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 3:41:00 PM		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2022 3:41:00 PM		
Surr: DNOP	69.2	51.1-141	%Rec	1	7/14/2022 3:41:00 PM		
EPA METHOD 8015D: GASOLINE RANGE	i i				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/16/2022 12:45:00 AM		
Surr: BFB	79.8	37.7-212	%Rec	1	7/16/2022 12:45:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.023	mg/Kg	1	7/16/2022 12:45:00 AM		
Toluene	ND	0.046	mg/Kg	1	7/16/2022 12:45:00 AM		
Ethylbenzene	ND	0.046	mg/Kg	1	7/16/2022 12:45:00 AM		
Xylenes, Total	ND	0.093	mg/Kg	1	7/16/2022 12:45:00 AM		
Surr: 4-Bromofluorobenzene	80.6	70-130	%Rec	1	7/16/2022 12:45:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: JTT		
Chloride	64	60	mg/Kg	20	7/17/2022 4:20:04 AM		

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-013

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-74 20' Collection Date: 7/8/2022 8:25:00 AM Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 4:05:32 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/14/2022 4:05:32 PM
Surr: DNOP	59.3	51.1-141	%Rec	1	7/14/2022 4:05:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/16/2022 1:04:00 AM
Surr: BFB	80.9	37.7-212	%Rec	1	7/16/2022 1:04:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	7/16/2022 1:04:00 AM
Toluene	ND	0.047	mg/Kg	1	7/16/2022 1:04:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/16/2022 1:04:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/16/2022 1:04:00 AM
Surr: 4-Bromofluorobenzene	81.2	70-130	%Rec	1	7/16/2022 1:04:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	61	60	mg/Kg	20	7/17/2022 11:09:54 AM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project: Cooper AHH 001

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2207418

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2022 Client Sample ID: BS22-75 20' Collection Date: 7/8/2022 8:25:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-014	Matrix: SOIL	Received Date: 7/12/2022 7:20:00 AM				
Analyses	Result	Result RL Qual Unit		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/14/2022 4:30:16 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/14/2022 4:30:16 PM	
Surr: DNOP	81.8	51.1-141	%Rec	1	7/14/2022 4:30:16 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/16/2022 1:24:00 AM	
Surr: BFB	84.1	37.7-212	%Rec	1	7/16/2022 1:24:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.024	mg/Kg	1	7/16/2022 1:24:00 AM	
Toluene	ND	0.049	mg/Kg	1	7/16/2022 1:24:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/16/2022 1:24:00 AM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/16/2022 1:24:00 AM	
Surr: 4-Bromofluorobenzene	84.6	70-130	%Rec	1	7/16/2022 1:24:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	69	60	mg/Kg	20	7/17/2022 11:22:15 AM	

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

Qualifiers:

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

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2022 Client Sample ID: BS22-76 20' Collection Date: 7/8/2022 8:30:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-015	Matrix: SOIL	Received Date: 7/12/2022 7:20:00 AM				
Analyses	Result	Result RL Qual Un		DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/14/2022 4:54:43 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/14/2022 4:54:43 PM	
Surr: DNOP	58.0	51.1-141	%Rec	1	7/14/2022 4:54:43 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/16/2022 1:44:00 AM	
Surr: BFB	85.4	37.7-212	%Rec	1	7/16/2022 1:44:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.024	mg/Kg	1	7/16/2022 1:44:00 AM	
Toluene	ND	0.048	mg/Kg	1	7/16/2022 1:44:00 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	7/16/2022 1:44:00 AM	
Xylenes, Total	ND	0.096	mg/Kg	1	7/16/2022 1:44:00 AM	
Surr: 4-Bromofluorobenzene	83.6	70-130	%Rec	1	7/16/2022 1:44:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	7/17/2022 11:34:35 AM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-77 20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:30:00 AM Lab ID: 2207418-016 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/15/2022 3:33:57 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/15/2022 3:33:57 AM Surr: DNOP 59.7 51.1-141 %Rec 1 7/15/2022 3:33:57 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 2:24:00 AM 4.9 mg/Kg 1 Surr: BFB 81.6 37.7-212 %Rec 1 7/16/2022 2:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 2:24:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 2:24:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 2:24:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 2:24:00 AM Surr: 4-Bromofluorobenzene 80.4 70-130 %Rec 1 7/16/2022 2:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 7/17/2022 11:46:55 AM ND 61 20

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

Qualifiers:

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

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

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H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-24 17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:45:00 AM Lab ID: 2207418-017 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/15/2022 3:58:25 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/15/2022 3:58:25 AM Surr: DNOP 59.9 51.1-141 %Rec 1 7/15/2022 3:58:25 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 2:43:00 AM 4.9 mg/Kg 1 Surr: BFB 84.3 37.7-212 %Rec 1 7/16/2022 2:43:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 2:43:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 2:43:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 2:43:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 2:43:00 AM Surr: 4-Bromofluorobenzene 82.0 70-130 %Rec 1 7/16/2022 2:43:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 11:59:16 AM ND 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-30 17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:45:00 AM Lab ID: 2207418-018 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/15/2022 4:22:49 AM Motor Oil Range Organics (MRO) 47 7/15/2022 4:22:49 AM ND mg/Kg 1 Surr: DNOP 68.3 51.1-141 %Rec 1 7/15/2022 4:22:49 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 3:03:00 AM 4.9 mg/Kg 1 Surr: BFB 82.4 37.7-212 %Rec 1 7/16/2022 3:03:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 3:03:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 3:03:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 3:03:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 3:03:00 AM Surr: 4-Bromofluorobenzene 83.2 70-130 %Rec 1 7/16/2022 3:03:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 12:11:37 PM 61 59 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 18 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-31 17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:50:00 AM Lab ID: 2207418-019 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 7/15/2022 4:47:07 AM Diesel Range Organics (DRO) ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) 47 7/15/2022 4:47:07 AM ND mg/Kg 1 Surr: DNOP 60.0 51.1-141 %Rec 1 7/15/2022 4:47:07 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 7/16/2022 3:23:00 AM mg/Kg 1 Surr: BFB 80.8 37.7-212 %Rec 1 7/16/2022 3:23:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 3:23:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/16/2022 3:23:00 AM Ethylbenzene ND 0.047 mg/Kg 1 7/16/2022 3:23:00 AM Xylenes, Total ND 0.095 mg/Kg 1 7/16/2022 3:23:00 AM Surr: 4-Bromofluorobenzene 80.9 70-130 %Rec 1 7/16/2022 3:23:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 12:23:58 PM ND 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 19 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-32 17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:50:00 AM Lab ID: 2207418-020 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/15/2022 5:11:38 AM Motor Oil Range Organics (MRO) 7/15/2022 5:11:38 AM ND 48 mg/Kg 1 Surr: DNOP 59.6 51.1-141 %Rec 1 7/15/2022 5:11:38 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 3:43:00 AM 5.0 mg/Kg 1 Surr: BFB 83.5 37.7-212 %Rec 1 7/16/2022 3:43:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 3:43:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/16/2022 3:43:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/16/2022 3:43:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 3:43:00 AM Surr: 4-Bromofluorobenzene 84.0 70-130 %Rec 1 7/16/2022 3:43:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 12:36:19 PM 61 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 20 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-44 17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:55:00 AM Lab ID: 2207418-021 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/15/2022 5:35:56 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/15/2022 5:35:56 AM Surr: DNOP 57.2 51.1-141 %Rec 1 7/15/2022 5:35:56 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 4:02:00 AM 5.0 mg/Kg 1 Surr: BFB 81.6 37.7-212 %Rec 1 7/16/2022 4:02:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 4:02:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/16/2022 4:02:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/16/2022 4:02:00 AM Xylenes, Total ND mg/Kg 1 7/16/2022 4:02:00 AM 0.099 Surr: 4-Bromofluorobenzene 79.9 70-130 %Rec 1 7/16/2022 4:02:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 1:46:40 PM ND 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-14 17-20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:35:00 AM Lab ID: 2207418-022 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/15/2022 6:00:24 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 7/15/2022 6:00:24 AM Surr: DNOP 89.9 51.1-141 %Rec 1 7/15/2022 6:00:24 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 4:22:00 AM 4.9 mg/Kg 1 Surr: BFB 81.1 37.7-212 %Rec 1 7/16/2022 4:22:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 4:22:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 4:22:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 4:22:00 AM Xylenes, Total ND 0.099 mg/Kg 7/16/2022 4:22:00 AM 1 Surr: 4-Bromofluorobenzene 81.0 70-130 %Rec 1 7/16/2022 4:22:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 7/17/2022 2:23:43 PM 62 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project:

Lab ID:

Analyses

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

7/16/2022 4:42:00 AM

7/17/2022 3:00:45 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-15 17-20' Cooper AHH 001 Collection Date: 7/8/2022 8:35:00 AM 2207418-023 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 6:24:44 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/15/2022 6:24:44 AM Surr: DNOP 78.0 51.1-141 %Rec 1 7/15/2022 6:24:44 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 7/16/2022 4:42:00 AM mg/Kg 1 Surr: BFB 81.5 37.7-212 %Rec 1 7/16/2022 4:42:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM

0.024

0.047

0.047

0.095

70-130

60

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1

1

20

ND

ND

ND

ND

82.6

65

Refer to the QC Summary 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
- POL
- Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 2/24/2023 2:37:49 PM

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-16 17-20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:40:00 AM Lab ID: 2207418-024 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 6:49:07 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/15/2022 6:49:07 AM Surr: DNOP 75.6 51.1-141 %Rec 1 7/15/2022 6:49:07 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 5:02:00 AM 4.9 mg/Kg 1 Surr: BFB 81.6 37.7-212 %Rec 1 7/16/2022 5:02:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 5:02:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 5:02:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 5:02:00 AM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 5:02:00 AM Surr: 4-Bromofluorobenzene 83.7 70-130 %Rec 1 7/16/2022 5:02:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 3:13:06 PM 70 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 24 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-17 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:50:00 AM Lab ID: 2207418-025 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 7:13:25 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/15/2022 7:13:25 AM Surr: DNOP 94.4 51.1-141 %Rec 1 7/15/2022 7:13:25 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 7/16/2022 5:21:00 AM 4.8 mg/Kg 1 Surr: BFB 82.2 37.7-212 %Rec 1 7/16/2022 5:21:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 7/16/2022 5:21:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 5:21:00 AM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 5:21:00 AM Xylenes, Total ND 0.097 mg/Kg 7/16/2022 5:21:00 AM 1 Surr: 4-Bromofluorobenzene 84.3 70-130 %Rec 1 7/16/2022 5:21:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 3:25:26 PM 62 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-17 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:50:00 AM Lab ID: 2207418-026 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 9:33:18 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/15/2022 9:33:18 PM Surr: DNOP 96.7 51.1-141 %Rec 1 7/15/2022 9:33:18 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 7:32:07 AM 4.8 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 7/16/2022 7:32:07 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 7:32:07 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 7:32:07 AM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 7:32:07 AM Xylenes, Total ND 0.097 mg/Kg 1 7/16/2022 7:32:07 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 7:32:07 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 3:37:47 PM 62 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-17 12-16' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:55:00 AM Lab ID: 2207418-027 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/15/2022 10:14:59 PM Motor Oil Range Organics (MRO) 7/15/2022 10:14:59 PM ND 48 mg/Kg 1 Surr: DNOP 104 51.1-141 %Rec 1 7/15/2022 10:14:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 7/16/2022 8:43:15 AM mg/Kg 1 Surr: BFB 98.8 37.7-212 %Rec 1 7/16/2022 8:43:15 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 8:43:15 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/16/2022 8:43:15 AM Ethylbenzene ND 0.047 mg/Kg 1 7/16/2022 8:43:15 AM Xylenes, Total ND 0.095 mg/Kg 1 7/16/2022 8:43:15 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 8:43:15 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 4:14:50 PM 63 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-17 16-20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 8:55:00 AM Lab ID: 2207418-028 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED 7/15/2022 10:29:02 PM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) 7/15/2022 10:29:02 PM ND 50 mg/Kg 1 Surr: DNOP 99.7 51.1-141 %Rec 1 7/15/2022 10:29:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 9:54:05 AM 4.9 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 7/16/2022 9:54:05 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 9:54:05 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 9:54:05 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 9:54:05 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 9:54:05 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 9:54:05 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 4:27:11 PM 67 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-18 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:00:00 AM Lab ID: 2207418-029 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/15/2022 10:42:53 PM Motor Oil Range Organics (MRO) 7/15/2022 10:42:53 PM ND 46 mg/Kg 1 Surr: DNOP 108 51.1-141 %Rec 1 7/15/2022 10:42:53 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 10:17:36 AM 4.9 mg/Kg 1 Surr: BFB 98.7 37.7-212 %Rec 1 7/16/2022 10:17:36 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 7/16/2022 10:17:36 AM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 10:17:36 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 10:17:36 AM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 10:17:36 AM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 7/16/2022 10:17:36 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 4:39:32 PM 70 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-18 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:00:00 AM Lab ID: 2207418-030 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/15/2022 10:56:47 PM Motor Oil Range Organics (MRO) ND 7/15/2022 10:56:47 PM 48 mg/Kg 1 Surr: DNOP 51.1-141 %Rec 1 7/15/2022 10:56:47 PM 112 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 11:28:26 AM 4.6 mg/Kg 1 Surr: BFB 98.7 37.7-212 %Rec 1 7/16/2022 11:28:26 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 11:28:26 AM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 7/16/2022 11:28:26 AM Ethylbenzene ND 0.046 mg/Kg 1 7/16/2022 11:28:26 AM Xylenes, Total ND 0.092 mg/Kg 1 7/16/2022 11:28:26 AM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 7/16/2022 11:28:26 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 4:51:52 PM 87 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-18 12-16' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:05:00 AM Lab ID: 2207418-031 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 7/15/2022 11:10:36 PM **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/15/2022 11:10:36 PM Surr: DNOP 107 51.1-141 %Rec 1 7/15/2022 11:10:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 11:52:06 AM 4.9 mg/Kg 1 Surr: BFB 99.8 37.7-212 %Rec 1 7/16/2022 11:52:06 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 7/16/2022 11:52:06 AM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 11:52:06 AM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 11:52:06 AM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 11:52:06 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 11:52:06 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 5:04:13 PM 77 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-18 16-20' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:05:00 AM Lab ID: 2207418-032 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 11:24:21 PM Motor Oil Range Organics (MRO) 7/15/2022 11:24:21 PM ND 50 mg/Kg 1 Surr: DNOP 51.1-141 %Rec 1 7/15/2022 11:24:21 PM 111 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 12:15:48 PM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 7/16/2022 12:15:48 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 12:15:48 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 12:15:48 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 12:15:48 PM Xylenes, Total ND 0.096 mg/Kg 7/16/2022 12:15:48 PM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 12:15:48 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 5:16:33 PM 67 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-19 0-4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:10:00 AM Lab ID: 2207418-033 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 7/15/2022 11:38:15 PM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/15/2022 11:38:15 PM Surr: DNOP 90.2 51.1-141 %Rec 1 7/15/2022 11:38:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 12:39:32 PM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 7/16/2022 12:39:32 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 12:39:32 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 12:39:32 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 12:39:32 PM Xylenes, Total ND 0.097 mg/Kg 1 7/16/2022 12:39:32 PM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 7/16/2022 12:39:32 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 5:28:55 PM 77 61 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 33 of 97

Released to Imaging: 2/24/2023 2:37:49 PM

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-19 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:10:00 AM Lab ID: 2207418-034 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/15/2022 11:52:02 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/15/2022 11:52:02 PM Surr: DNOP 97.3 51.1-141 %Rec 1 7/15/2022 11:52:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 7/16/2022 1:03:14 PM mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 7/16/2022 1:03:14 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 1:03:14 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/16/2022 1:03:14 PM Ethylbenzene ND 0.047 mg/Kg 1 7/16/2022 1:03:14 PM Xylenes, Total ND 0.094 mg/Kg 1 7/16/2022 1:03:14 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 7/16/2022 1:03:14 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 5:41:16 PM 76 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-19 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:15:00 AM Lab ID: 2207418-035 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 12:05:51 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 12:05:51 AM Surr: DNOP 79.2 51.1-141 %Rec 1 7/16/2022 12:05:51 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 1:26:57 PM 4.9 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 7/16/2022 1:26:57 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 1:26:57 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 1:26:57 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 1:26:57 PM Xylenes, Total ND 0.099 mg/Kg 7/16/2022 1:26:57 PM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 7/16/2022 1:26:57 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 5:53:36 PM 75 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-19 12-17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:15:00 AM Lab ID: 2207418-036 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 12:19:33 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 12:19:33 AM Surr: DNOP 92.4 51.1-141 %Rec 1 7/16/2022 12:19:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 1:50:43 PM 4.6 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 7/16/2022 1:50:43 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 1:50:43 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 7/16/2022 1:50:43 PM Ethylbenzene ND 0.046 mg/Kg 1 7/16/2022 1:50:43 PM Xylenes, Total ND 0.091 mg/Kg 1 7/16/2022 1:50:43 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 7/16/2022 1:50:43 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 6:05:57 PM 78 59 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-20 0-4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:20:00 AM Lab ID: 2207418-037 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 12:33:21 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/16/2022 12:33:21 AM Surr: DNOP 98.1 51.1-141 %Rec 1 7/16/2022 12:33:21 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 2:14:33 PM 4.8 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 7/16/2022 2:14:33 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 2:14:33 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 2:14:33 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 2:14:33 PM Xylenes, Total ND 0.097 mg/Kg 7/16/2022 2:14:33 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 7/16/2022 2:14:33 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 6:42:59 PM 75 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-20 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:20:00 AM Lab ID: 2207418-038 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 12:47:01 AM Motor Oil Range Organics (MRO) 7/16/2022 12:47:01 AM ND 49 mg/Kg 1 Surr: DNOP 73.0 51.1-141 %Rec 1 7/16/2022 12:47:01 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 2:38:21 PM 4.6 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 7/16/2022 2:38:21 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 2:38:21 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 7/16/2022 2:38:21 PM Ethylbenzene ND 0.046 mg/Kg 1 7/16/2022 2:38:21 PM Xylenes, Total ND 0.092 mg/Kg 7/16/2022 2:38:21 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 7/16/2022 2:38:21 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 6:55:20 PM 70 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-20 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:25:00 AM Lab ID: 2207418-039 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/16/2022 1:00:38 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/16/2022 1:00:38 AM Surr: DNOP 106 51.1-141 %Rec 1 7/16/2022 1:00:38 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 3:02:11 PM 4.8 mg/Kg 1 Surr: BFB 106 37.7-212 %Rec 1 7/16/2022 3:02:11 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 3:02:11 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 3:02:11 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 3:02:11 PM Xylenes, Total ND 0.095 mg/Kg 1 7/16/2022 3:02:11 PM Surr: 4-Bromofluorobenzene 107 70-130 %Rec 1 7/16/2022 3:02:11 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/17/2022 7:07:40 PM 73 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 39 of 97

Date Reported: 7/20/2022

7/17/2022 7:20:01 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-20 12-17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:25:00 AM Lab ID: 2207418-040 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 1:14:24 AM Motor Oil Range Organics (MRO) 7/16/2022 1:14:24 AM ND 48 mg/Kg 1 Surr: DNOP 76.4 51.1-141 %Rec 1 7/16/2022 1:14:24 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 3:49:59 PM 4.8 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 7/16/2022 3:49:59 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 3:49:59 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 3:49:59 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 3:49:59 PM Xylenes, Total ND 0.096 mg/Kg 1 7/16/2022 3:49:59 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 7/16/2022 3:49:59 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI

76

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

Qualifiers:

Chloride

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

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

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H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-22 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:30:00 AM Lab ID: 2207418-041 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 1:28:00 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 1:28:00 AM Surr: DNOP 90.1 51.1-141 %Rec 1 7/16/2022 1:28:00 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 4:14:00 PM 4.8 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 7/16/2022 4:14:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 4:14:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 4:14:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 4:14:00 PM Xylenes, Total ND 0.096 mg/Kg 1 7/16/2022 4:14:00 PM Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 7/16/2022 4:14:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 11:23:32 AM 75 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 41 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-22 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:30:00 AM Lab ID: 2207418-042 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/16/2022 1:41:42 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/16/2022 1:41:42 AM Surr: DNOP 95.8 51.1-141 %Rec 1 7/16/2022 1:41:42 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 7/16/2022 4:37:58 PM mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 7/16/2022 4:37:58 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 4:37:58 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/16/2022 4:37:58 PM Ethylbenzene ND 0.047 mg/Kg 1 7/16/2022 4:37:58 PM Xylenes, Total ND 0.094 mg/Kg 1 7/16/2022 4:37:58 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 7/16/2022 4:37:58 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 11:35:57 AM 69 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-22 12-15' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:35:00 AM Lab ID: 2207418-043 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 1:55:15 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 1:55:15 AM Surr: DNOP 106 51.1-141 %Rec 1 7/16/2022 1:55:15 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 5:02:00 PM 4.9 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 7/16/2022 5:02:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 7/16/2022 5:02:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 5:02:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 5:02:00 PM Xylenes, Total ND 0.097 mg/Kg 1 7/16/2022 5:02:00 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 7/16/2022 5:02:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 11:48:21 AM 73 60 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 43 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-22 15-17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:35:00 AM Lab ID: 2207418-044 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:08:55 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 2:08:55 AM Surr: DNOP 114 51.1-141 %Rec 1 7/16/2022 2:08:55 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 5:26:00 PM 4.8 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 7/16/2022 5:26:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 5:26:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 5:26:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 5:26:00 PM Xylenes, Total ND 0.096 mg/Kg 1 7/16/2022 5:26:00 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 7/16/2022 5:26:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 12:00:46 PM 68 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-23 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:40:00 AM Lab ID: 2207418-045 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:22:29 AM Motor Oil Range Organics (MRO) 7/16/2022 2:22:29 AM ND 50 mg/Kg 1 Surr: DNOP 105 51.1-141 %Rec 1 7/16/2022 2:22:29 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/16/2022 5:50:05 PM 4.9 mg/Kg 1 Surr: BFB 106 37.7-212 %Rec 1 7/16/2022 5:50:05 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 7/16/2022 5:50:05 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 5:50:05 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 5:50:05 PM Xylenes, Total ND 0.097 mg/Kg 1 7/16/2022 5:50:05 PM Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 7/16/2022 5:50:05 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 12:38:00 PM ND 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 45 of 97

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-23 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:40:00 AM Lab ID: 2207418-046 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 10:52:23 AM Motor Oil Range Organics (MRO) 7/16/2022 10:52:23 AM ND 50 mg/Kg 1 Surr: DNOP 68.2 51.1-141 %Rec 1 7/16/2022 10:52:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 12:56:00 PM 4.9 mg/Kg 1 Surr: BFB 85.4 37.7-212 %Rec 1 7/16/2022 12:56:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 12:56:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 12:56:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 12:56:00 PM Xylenes, Total ND 0.098 mg/Kg 7/16/2022 12:56:00 PM 1 Surr: 4-Bromofluorobenzene 84.2 70-130 %Rec 1 7/16/2022 12:56:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 1:15:15 PM 81 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-23 12-15' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:45:00 AM Lab ID: 2207418-047 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 11:16:15 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/16/2022 11:16:15 AM Surr: DNOP 65.9 51.1-141 %Rec 1 7/16/2022 11:16:15 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 1:55:00 PM 4.9 mg/Kg 1 Surr: BFB 89.6 37.7-212 %Rec 1 7/16/2022 1:55:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 7/16/2022 1:55:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 1:55:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 1:55:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 1:55:00 PM Surr: 4-Bromofluorobenzene 86.7 70-130 %Rec 1 7/16/2022 1:55:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 1:27:40 PM 78 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-23 15-17' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 9:45:00 AM Lab ID: 2207418-048 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 7/16/2022 11:40:11 AM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) 7/16/2022 11:40:11 AM ND 49 mg/Kg 1 Surr: DNOP 63.3 51.1-141 %Rec 1 7/16/2022 11:40:11 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 2:55:00 PM 4.8 mg/Kg 1 Surr: BFB 83.1 37.7-212 %Rec 1 7/16/2022 2:55:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 2:55:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/16/2022 2:55:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/16/2022 2:55:00 PM Xylenes, Total ND 0.096 mg/Kg 7/16/2022 2:55:00 PM 1 Surr: 4-Bromofluorobenzene 82.6 70-130 %Rec 1 7/16/2022 2:55:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 1:40:05 PM 69 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS22-21 14-17' Collection Date: 7/8/2022 10:15:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-049	Matrix: SOIL	022 7:20:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/16/2022 12:04:11 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/16/2022 12:04:11 PM
Surr: DNOP	61.3	51.1-141	%Rec	1	7/16/2022 12:04:11 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 3:15:00 PM
Surr: BFB	88.3	37.7-212	%Rec	1	7/16/2022 3:15:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/16/2022 3:15:00 PM
Toluene	ND	0.050	mg/Kg	1	7/16/2022 3:15:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 3:15:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/16/2022 3:15:00 PM
Surr: 4-Bromofluorobenzene	82.6	70-130	%Rec	1	7/16/2022 3:15:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	7/18/2022 1:52:30 PM

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

Qualifiers:

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

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 49 of 97

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-050

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-93 14' Collection Date: 7/8/2022 10:15:00 AM Received Date: 7/12/2022 7:20:00 AM

Lub ID: 2207 110 050	Mutha Sole					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 12:29:51 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2022 12:29:51 PM	
Surr: DNOP	67.9	51.1-141	%Rec	1	7/16/2022 12:29:51 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 3:35:00 PM	
Surr: BFB	87.9	37.7-212	%Rec	1	7/16/2022 3:35:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	7/16/2022 3:35:00 PM	
Toluene	ND	0.050	mg/Kg	1	7/16/2022 3:35:00 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 3:35:00 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	7/16/2022 3:35:00 PM	
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	7/16/2022 3:35:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	7/18/2022 2:04:55 PM	

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-94 14' Collection Date: 7/8/2022 10:20:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-051	Matrix: SOIL	SOIL Received Date: 7/12/2022 7:20:00 A				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 12:53:57 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2022 12:53:57 PM	
Surr: DNOP	66.2	51.1-141	%Rec	1	7/16/2022 12:53:57 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 3:54:00 PM	
Surr: BFB	84.5	37.7-212	%Rec	1	7/16/2022 3:54:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	7/16/2022 3:54:00 PM	
Toluene	ND	0.050	mg/Kg	1	7/16/2022 3:54:00 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 3:54:00 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	7/16/2022 3:54:00 PM	
Surr: 4-Bromofluorobenzene	83.6	70-130	%Rec	1	7/16/2022 3:54:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	7/18/2022 2:42:09 PM	

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

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

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

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-052

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-95 14' Collection Date: 7/8/2022 10:20:00 AM Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 1:17:55 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 1:17:55 PM
Surr: DNOP	66.8	51.1-141	%Rec	1	7/16/2022 1:17:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 4:14:00 PM
Surr: BFB	86.3	37.7-212	%Rec	1	7/16/2022 4:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/16/2022 4:14:00 PM
Toluene	ND	0.050	mg/Kg	1	7/16/2022 4:14:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 4:14:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/16/2022 4:14:00 PM
Surr: 4-Bromofluorobenzene	84.5	70-130	%Rec	1	7/16/2022 4:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	7/18/2022 2:54:35 PM

Matrix: SOIL

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

Qualifiers:

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-053

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-96 14' Collection Date: 7/8/2022 10:25:00 AM Received Date: 7/12/2022 7:20:00 AM

Eub ID: 2207 110 055	Mutha boll					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 1:41:54 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2022 1:41:54 PM	
Surr: DNOP	74.1	51.1-141	%Rec	1	7/16/2022 1:41:54 PM	
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/16/2022 4:34:00 PM	
Surr: BFB	85.1	37.7-212	%Rec	1	7/16/2022 4:34:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	7/16/2022 4:34:00 PM	
Toluene	ND	0.049	mg/Kg	1	7/16/2022 4:34:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/16/2022 4:34:00 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	7/16/2022 4:34:00 PM	
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	7/16/2022 4:34:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	7/18/2022 3:07:00 PM	

Matrix: SOIL

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

Qualifiers:

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

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-054

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-97 14' Collection Date: 7/8/2022 10:25:00 AM Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 2:05:56 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 2:05:56 PM
Surr: DNOP	67.1	51.1-141	%Rec	1	7/16/2022 2:05:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 4:55:00 PM
Surr: BFB	88.6	37.7-212	%Rec	1	7/16/2022 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/16/2022 4:55:00 PM
Toluene	ND	0.050	mg/Kg	1	7/16/2022 4:55:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 4:55:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/16/2022 4:55:00 PM
Surr: 4-Bromofluorobenzene	84.3	70-130	%Rec	1	7/16/2022 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	7/18/2022 3:44:14 PM

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-24 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:35:00 AM Lab ID: 2207418-055 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/16/2022 2:29:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/16/2022 2:29:58 PM Surr: DNOP 68.7 51.1-141 %Rec 1 7/16/2022 2:29:58 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 5:15:00 PM 4.9 mg/Kg 1 Surr: BFB 89.4 37.7-212 %Rec 1 7/16/2022 5:15:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 5:15:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 5:15:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 5:15:00 PM Xylenes, Total ND 0.097 mg/Kg 7/16/2022 5:15:00 PM 1 Surr: 4-Bromofluorobenzene 86.0 70-130 %Rec 1 7/16/2022 5:15:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 3:56:39 PM 86 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-24 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:35:00 AM Lab ID: 2207418-056 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:53:59 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 2:53:59 PM Surr: DNOP 69.4 51.1-141 %Rec 1 7/16/2022 2:53:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 5:55:00 PM 4.9 mg/Kg 1 Surr: BFB 84.9 37.7-212 %Rec 1 7/16/2022 5:55:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 5:55:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 5:55:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 5:55:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 5:55:00 PM Surr: 4-Bromofluorobenzene 82.3 70-130 %Rec 1 7/16/2022 5:55:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 4:09:03 PM 87 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-25 4-8' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:40:00 AM Lab ID: 2207418-057 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 3:18:00 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 3:18:00 PM Surr: DNOP 80.1 51.1-141 %Rec 1 7/16/2022 3:18:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 6:15:00 PM 5.0 mg/Kg 1 Surr: BFB 84.8 37.7-212 %Rec 1 7/16/2022 6:15:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 6:15:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/16/2022 6:15:00 PM Ethylbenzene ND 0.050 mg/Kg 1 7/16/2022 6:15:00 PM Xylenes, Total ND mg/Kg 1 7/16/2022 6:15:00 PM 0.099 Surr: 4-Bromofluorobenzene 82.3 70-130 %Rec 1 7/16/2022 6:15:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 4:21:28 PM 86 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-25 8-12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:40:00 AM Lab ID: 2207418-058 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/16/2022 3:41:59 PM Motor Oil Range Organics (MRO) 47 ND mg/Kg 1 7/16/2022 3:41:59 PM Surr: DNOP 66.7 51.1-141 %Rec 1 7/16/2022 3:41:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 6:35:00 PM 4.9 mg/Kg 1 Surr: BFB 83.8 37.7-212 %Rec 1 7/16/2022 6:35:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 6:35:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 6:35:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 6:35:00 PM Xylenes, Total ND 0.097 mg/Kg 1 7/16/2022 6:35:00 PM Surr: 4-Bromofluorobenzene 81.6 70-130 %Rec 1 7/16/2022 6:35:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 4:33:53 PM 90 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-98 12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:45:00 AM Lab ID: 2207418-059 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 7/16/2022 4:06:02 PM **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) 7/16/2022 4:06:02 PM ND 50 mg/Kg 1 Surr: DNOP 68.1 51.1-141 %Rec 1 7/16/2022 4:06:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 6:54:00 PM 4.9 mg/Kg 1 Surr: BFB 84.0 37.7-212 %Rec 1 7/16/2022 6:54:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 6:54:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 6:54:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 6:54:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 6:54:00 PM Surr: 4-Bromofluorobenzene 82.5 70-130 %Rec 1 7/16/2022 6:54:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI mg/Kg Chloride 7/18/2022 4:46:17 PM 80 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Cooper AHH 001

Project:

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-99 12' Collection Date: 7/8/2022 10:45:00 AM Received Date: 7/12/2022 7:20:00 AM Matrix: SOIL

Lab ID: 2207418-060	Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 4:30:06 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 4:30:06 PM
Surr: DNOP	67.4	51.1-141	%Rec	1	7/16/2022 4:30:06 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/16/2022 7:14:00 PM
Surr: BFB	83.8	37.7-212	%Rec	1	7/16/2022 7:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/16/2022 7:14:00 PM
Toluene	ND	0.050	mg/Kg	1	7/16/2022 7:14:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2022 7:14:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/16/2022 7:14:00 PM
Surr: 4-Bromofluorobenzene	81.4	70-130	%Rec	1	7/16/2022 7:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	90	60	mg/Kg	20	7/18/2022 4:58:42 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 60 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-100 12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:50:00 AM Lab ID: 2207418-061 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 4:54:07 PM Motor Oil Range Organics (MRO) 7/16/2022 4:54:07 PM ND 50 mg/Kg 1 Surr: DNOP 71.0 51.1-141 %Rec 1 7/16/2022 4:54:07 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 7:34:00 PM 4.9 mg/Kg 1 Surr: BFB 83.3 37.7-212 %Rec 1 7/16/2022 7:34:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 7:34:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 7:34:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 7:34:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 7:34:00 PM Surr: 4-Bromofluorobenzene 81.8 70-130 %Rec 1 7/16/2022 7:34:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 1:44:25 PM

88

59

20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 61 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-101 12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:50:00 AM Lab ID: 2207418-062 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 5:18:09 PM Motor Oil Range Organics (MRO) 7/16/2022 5:18:09 PM ND 49 mg/Kg 1 Surr: DNOP 63.4 51.1-141 %Rec 1 7/16/2022 5:18:09 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 7:54:00 PM 5.0 mg/Kg 1 Surr: BFB 83.7 37.7-212 %Rec 1 7/16/2022 7:54:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.025 7/16/2022 7:54:00 PM mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/16/2022 7:54:00 PM Ethylbenzene ND 0.050 mg/Kg 1 7/16/2022 7:54:00 PM Xylenes, Total ND mg/Kg 1 7/16/2022 7:54:00 PM 0.10 Surr: 4-Bromofluorobenzene 82.4 70-130 %Rec 1 7/16/2022 7:54:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 1:56:47 PM 87 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 62 of 97

*

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-102 12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:55:00 AM Lab ID: 2207418-063 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 7/16/2022 5:42:08 PM Motor Oil Range Organics (MRO) 47 7/16/2022 5:42:08 PM ND mg/Kg 1 Surr: DNOP 60.8 51.1-141 %Rec 1 7/16/2022 5:42:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 8:14:00 PM 4.9 mg/Kg 1 Surr: BFB 84.4 37.7-212 %Rec 1 7/16/2022 8:14:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 8:14:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 8:14:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 8:14:00 PM Xylenes, Total ND 0.099 mg/Kg 1 7/16/2022 8:14:00 PM Surr: 4-Bromofluorobenzene 83.2 70-130 %Rec 1 7/16/2022 8:14:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 2:09:08 PM 88 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

7/18/2022 2:21:29 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-103 12' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 10:55:00 AM Lab ID: 2207418-064 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 6:30:13 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 6:30:13 PM Surr: DNOP 62.3 51.1-141 %Rec 1 7/16/2022 6:30:13 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 8:34:00 PM 5.0 mg/Kg 1 Surr: BFB 86.3 37.7-212 %Rec 1 7/16/2022 8:34:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 8:34:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/16/2022 8:34:00 PM Ethylbenzene ND 0.050 mg/Kg 1 7/16/2022 8:34:00 PM Xylenes, Total ND mg/Kg 1 7/16/2022 8:34:00 PM 0.10 Surr: 4-Bromofluorobenzene 82.6 70-130 %Rec 1 7/16/2022 8:34:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT

76

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

Qualifiers:

Chloride

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

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

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H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Lab ID:

Analyses

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-104 12' Cooper AHH 001 Collection Date: 7/8/2022 11:00:00 AM 2207418-065 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 7/16/2022 6:54:19 PM 15 mg/Kg 1 M M BRM PM PM BRM

Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 6:54:19 PM
Surr: DNOP	62.6	51.1-141	%Rec	1	7/16/2022 6:54:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/16/2022 8:54:00 PM
Surr: BFB	81.9	37.7-212	%Rec	1	7/16/2022 8:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	7/16/2022 8:54:00 PM
Toluene	ND	0.048	mg/Kg	1	7/16/2022 8:54:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/16/2022 8:54:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/16/2022 8:54:00 PM
Surr: 4-Bromofluorobenzene	81.5	70-130	%Rec	1	7/16/2022 8:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	83	60	mg/Kg	20	7/18/2022 2:33:49 PM

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 65 of 97

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-26 0-4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:10:00 AM Lab ID: 2207418-066 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:19:38 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/16/2022 2:19:38 PM Surr: DNOP 82.8 51.1-141 %Rec 1 7/16/2022 2:19:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 10:53:00 PM 4.9 mg/Kg 1 Surr: BFB 82.3 37.7-212 %Rec 1 7/16/2022 10:53:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 7/16/2022 10:53:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 10:53:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 10:53:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/16/2022 10:53:00 PM Surr: 4-Bromofluorobenzene 80.3 70-130 %Rec 1 7/16/2022 10:53:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 3:35:34 PM 83 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS22-27 0-4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:10:00 AM Lab ID: 2207418-067 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:33:59 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 2:33:59 PM Surr: DNOP 88.1 51.1-141 %Rec 1 7/16/2022 2:33:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/16/2022 11:52:00 PM 4.9 mg/Kg 1 Surr: BFB 83.3 37.7-212 %Rec 1 7/16/2022 11:52:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/16/2022 11:52:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/16/2022 11:52:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/16/2022 11:52:00 PM Xylenes, Total ND 0.098 mg/Kg 7/16/2022 11:52:00 PM 1 Surr: 4-Bromofluorobenzene 83.9 70-130 %Rec 1 7/16/2022 11:52:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 3:47:55 PM 65 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-82 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:15:00 AM Lab ID: 2207418-068 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 2:48:21 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 2:48:21 PM Surr: DNOP 70.4 51.1-141 %Rec 1 7/16/2022 2:48:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 12:51:00 AM 4.9 mg/Kg 1 Surr: BFB 80.7 37.7-212 %Rec 1 7/17/2022 12:51:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/17/2022 12:51:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/17/2022 12:51:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/17/2022 12:51:00 AM Xylenes, Total ND 0.099 mg/Kg 7/17/2022 12:51:00 AM 1 Surr: 4-Bromofluorobenzene 81.2 70-130 %Rec 1 7/17/2022 12:51:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 4:00:16 PM 73 59 20

Refer to the QC Summary 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

POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 68 of 97

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-069

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-83 4' Collection Date: 7/8/2022 11:15:00 AM Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 3:02:40 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 3:02:40 PM
Surr: DNOP	62.1	51.1-141	%Rec	1	7/16/2022 3:02:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/17/2022 1:11:00 AM
Surr: BFB	85.2	37.7-212	%Rec	1	7/17/2022 1:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	7/17/2022 1:11:00 AM
Toluene	ND	0.049	mg/Kg	1	7/17/2022 1:11:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2022 1:11:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/17/2022 1:11:00 AM
Surr: 4-Bromofluorobenzene	83.1	70-130	%Rec	1	7/17/2022 1:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	65	60	mg/Kg	20	7/18/2022 4:12:37 PM

Matrix: SOIL

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

Qualifiers:

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

- ND Not Detected at the Dependion of analysis e.
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

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H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-84 4' Collection Date: 7/8/2022 11:20:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-070	Matrix: SOIL	Received Date: 7/12/2022 7:20:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 3:16:53 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2022 3:16:53 PM	
Surr: DNOP	63.9	51.1-141	%Rec	1	7/16/2022 3:16:53 PM	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/17/2022 1:31:00 AM	
Surr: BFB	84.5	37.7-212	%Rec	1	7/17/2022 1:31:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.024	mg/Kg	1	7/17/2022 1:31:00 AM	
Toluene	ND	0.048	mg/Kg	1	7/17/2022 1:31:00 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	7/17/2022 1:31:00 AM	
Xylenes, Total	ND	0.096	mg/Kg	1	7/17/2022 1:31:00 AM	
Surr: 4-Bromofluorobenzene	81.4	70-130	%Rec	1	7/17/2022 1:31:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	63	60	mg/Kg	20	7/18/2022 4:24:58 PM	

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

The Net Detected of the Department Limit

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-071

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-85 4' Collection Date: 7/8/2022 11:20:00 AM Received Date: 7/12/2022 7:20:00 AM

EPA METHOD 8015M/D: DIESEL RANGE OR Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	GANICS ND				Analyst: SB
Motor Oil Range Organics (MRO)	ND				Analysi. 5B
		14	mg/Kg	1	7/16/2022 3:31:08 PM
	ND	47	mg/Kg	1	7/16/2022 3:31:08 PM
Surr: DNOP	72.2	51.1-141	%Rec	1	7/16/2022 3:31:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/17/2022 1:51:00 AM
Surr: BFB	83.4	37.7-212	%Rec	1	7/17/2022 1:51:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/17/2022 1:51:00 AM
Toluene	ND	0.049	mg/Kg	1	7/17/2022 1:51:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2022 1:51:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/17/2022 1:51:00 AM
Surr: 4-Bromofluorobenzene	82.9	70-130	%Rec	1	7/17/2022 1:51:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	69	60	mg/Kg	20	7/18/2022 4:37:18 PM

Matrix: SOIL

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

- 11 Holding times for preparation of analysis ex
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

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

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

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CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-86 4' Collection Date: 7/8/2022 11:25:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-072	Matrix: SOIL	022 7:20:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 3:45:33 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/16/2022 3:45:33 PM
Surr: DNOP	70.5	51.1-141	%Rec	1	7/16/2022 3:45:33 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/17/2022 2:10:00 AM
Surr: BFB	85.6	37.7-212	%Rec	1	7/17/2022 2:10:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/17/2022 2:10:00 AM
Toluene	ND	0.050	mg/Kg	1	7/17/2022 2:10:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/17/2022 2:10:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/17/2022 2:10:00 AM
Surr: 4-Bromofluorobenzene	83.8	70-130	%Rec	1	7/17/2022 2:10:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	68	59	mg/Kg	20	7/18/2022 4:49:39 PM

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

Qualifiers:

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

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

2207418-073

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-78 4' Collection Date: 7/8/2022 11:45:00 AM Received Date: 7/12/2022 7:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 4:00:06 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 4:00:06 PM
Surr: DNOP	65.2	51.1-141	%Rec	1	7/16/2022 4:00:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/17/2022 2:30:00 AM
Surr: BFB	84.2	37.7-212	%Rec	1	7/17/2022 2:30:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/17/2022 2:30:00 AM
Toluene	ND	0.050	mg/Kg	1	7/17/2022 2:30:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/17/2022 2:30:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/17/2022 2:30:00 AM
Surr: 4-Bromofluorobenzene	83.1	70-130	%Rec	1	7/17/2022 2:30:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	67	60	mg/Kg	20	7/18/2022 5:02:00 PM

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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H Holding times for preparation or analysis exceeded

Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-79 4' Cooper AHH 001 Collection Date: 7/8/2022 11:45:00 AM 2207418-074 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB 7/16/2022 4:14:32 PM Diesel Range Organics (DRO) mg/Kg ND 15 1 Motor Oil Range Organics (MRO) ND 7/16/2022 4:14:32 PM 48 mg/Kg 1 67.8 51.1-141 %Rec 1 7/16/2022 4:14:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 4.9 mg/Kg 7/17/2022 2:50:00 AM 1

Surr: BFB	86.1	37.7-212	%Rec	1	7/17/2022 2:50:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/17/2022 2:50:00 AM
Toluene	ND	0.049	mg/Kg	1	7/17/2022 2:50:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2022 2:50:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/17/2022 2:50:00 AM
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	7/17/2022 2:50:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	70	60	mg/Kg	20	7/18/2022 5:14:20 PM

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 74 of 97

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-80 4' Collection Date: 7/8/2022 11:50:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-075	Matrix: SOIL	Received Date: 7/12/2022 7:20:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	7/16/2022 4:28:49 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/16/2022 4:28:49 PM	
Surr: DNOP	72.0	51.1-141	%Rec	1	7/16/2022 4:28:49 PM	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/17/2022 3:10:00 AM	
Surr: BFB	85.7	37.7-212	%Rec	1	7/17/2022 3:10:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	7/17/2022 3:10:00 AM	
Toluene	ND	0.049	mg/Kg	1	7/17/2022 3:10:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2022 3:10:00 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	7/17/2022 3:10:00 AM	
Surr: 4-Bromofluorobenzene	84.3	70-130	%Rec	1	7/17/2022 3:10:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	74	60	mg/Kg	20	7/18/2022 5:26:41 PM	

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

Qualifiers:

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

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

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H Holding times for preparation or analysis exceeded

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-81 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:50:00 AM Lab ID: 2207418-076 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB 7/16/2022 4:43:04 PM **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) 47 7/16/2022 4:43:04 PM ND mg/Kg 1 Surr: DNOP 69.7 51.1-141 %Rec 1 7/16/2022 4:43:04 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 3:49:00 AM 5.0 mg/Kg 1 Surr: BFB 87.4 37.7-212 %Rec 1 7/17/2022 3:49:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/17/2022 3:49:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/17/2022 3:49:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/17/2022 3:49:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/17/2022 3:49:00 AM Surr: 4-Bromofluorobenzene 86.6 70-130 %Rec 1 7/17/2022 3:49:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 6:03:43 PM 70 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 76 of 97

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-87 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:25:00 AM Lab ID: 2207418-077 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 4:57:28 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/16/2022 4:57:28 PM Surr: DNOP 89.3 51.1-141 %Rec 1 7/16/2022 4:57:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 4:09:00 AM 4.9 mg/Kg 1 Surr: BFB 86.2 37.7-212 %Rec 1 7/17/2022 4:09:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/17/2022 4:09:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/17/2022 4:09:00 AM Ethylbenzene ND 0.049 mg/Kg 1 7/17/2022 4:09:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/17/2022 4:09:00 AM Surr: 4-Bromofluorobenzene 83.2 70-130 %Rec 1 7/17/2022 4:09:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 6:16:03 PM 72 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 77 of 97

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Lab ID:

Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

7/17/2022 4:29:00 AM

7/17/2022 4:29:00 AM

7/17/2022 4:29:00 AM

7/18/2022 6:28:23 PM

Analyst: JTT

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-88 4 Cooper AHH 001 Collection Date: 7/8/2022 11:30:00 AM 2207418-078 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 5:12:05 PM Motor Oil Range Organics (MRO) 7/16/2022 5:12:05 PM ND 49 mg/Kg 1 Surr: DNOP 68.2 51.1-141 %Rec 1 7/16/2022 5:12:05 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 4:29:00 AM 5.0 mg/Kg 1 Surr: BFB 87.3 37.7-212 %Rec 1 7/17/2022 4:29:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/17/2022 4:29:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/17/2022 4:29:00 AM

0.050

0.099

70-130

60

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

20

ND

ND

86.4

73

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

Qualifiers:

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

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

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Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-89 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:30:00 AM Lab ID: 2207418-079 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 15 mg/Kg 1 7/16/2022 5:26:28 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/16/2022 5:26:28 PM Surr: DNOP 94.6 51.1-141 %Rec 1 7/16/2022 5:26:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 4:48:00 AM 5.0 mg/Kg 1 Surr: BFB 83.9 37.7-212 %Rec 1 7/17/2022 4:48:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.025 7/17/2022 4:48:00 AM mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/17/2022 4:48:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/17/2022 4:48:00 AM Xylenes, Total ND mg/Kg 1 7/17/2022 4:48:00 AM 0.10 Surr: 4-Bromofluorobenzene 83.8 70-130 %Rec 1 7/17/2022 4:48:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 7:05:26 PM 67 60 20

Refer to the QC Summary 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

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 79 of 97

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-90 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:35:00 AM Lab ID: 2207418-080 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 14 mg/Kg 1 7/16/2022 5:40:36 PM Motor Oil Range Organics (MRO) 47 7/16/2022 5:40:36 PM ND mg/Kg 1 Surr: DNOP 105 51.1-141 %Rec 1 7/16/2022 5:40:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 5:08:00 AM 5.0 mg/Kg 1 Surr: BFB 87.8 37.7-212 %Rec 1 7/17/2022 5:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.025 7/17/2022 5:08:00 AM mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/17/2022 5:08:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/17/2022 5:08:00 AM Xylenes, Total ND mg/Kg 1 7/17/2022 5:08:00 AM 0.10 Surr: 4-Bromofluorobenzene 85.3 70-130 %Rec 1 7/17/2022 5:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 7:42:28 PM 71 60 20

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

Qualifiers:

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

- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Н Holding times for preparation or analysis exceeded

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS22-91 4' **Project:** Cooper AHH 001 Collection Date: 7/8/2022 11:35:00 AM Lab ID: 2207418-081 Matrix: SOIL Received Date: 7/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 7/16/2022 5:54:53 PM Motor Oil Range Organics (MRO) 7/16/2022 5:54:53 PM ND 49 mg/Kg 1 Surr: DNOP 104 51.1-141 %Rec 1 7/16/2022 5:54:53 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 7/17/2022 5:28:00 AM 5.0 mg/Kg 1 Surr: BFB 84.3 37.7-212 %Rec 1 7/17/2022 5:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 7/17/2022 5:28:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/17/2022 5:28:00 AM Ethylbenzene ND 0.050 mg/Kg 1 7/17/2022 5:28:00 AM Xylenes, Total ND 0.099 mg/Kg 1 7/17/2022 5:28:00 AM Surr: 4-Bromofluorobenzene 83.1 70-130 %Rec 1 7/17/2022 5:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/18/2022 7:54:49 PM 79 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project:

CLIENT: Vertex Resources Services, Inc.

Cooper AHH 001

Analytical Report Lab Order 2207418

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS22-92 4' Collection Date: 7/8/2022 11:40:00 AM Received Date: 7/12/2022 7:20:00 AM

Lab ID: 2207418-082	Matrix: SOIL	Rece	eived Date:	7/12/2	022 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	7/16/2022 6:09:20 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/16/2022 6:09:20 PM
Surr: DNOP	93.9	51.1-141	%Rec	1	7/16/2022 6:09:20 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/17/2022 5:48:00 AM
Surr: BFB	81.9	37.7-212	%Rec	1	7/17/2022 5:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	7/17/2022 5:48:00 AM
Toluene	ND	0.049	mg/Kg	1	7/17/2022 5:48:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/17/2022 5:48:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/17/2022 5:48:00 AM
Surr: 4-Bromofluorobenzene	82.6	70-130	%Rec	1	7/17/2022 5:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	80	61	mg/Kg	20	7/18/2022 8:31:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client: Project:		ex Resources Services, Inc. er AHH 001		
Sample ID:	LCS-68833	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 68833	RunNo: 89565	
Prep Date:	7/16/2022	Analysis Date: 7/17/2022	SeqNo: 3188126 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		14 1.5 15.00	0 95.2 90 110	
Sample ID:	MB-68833	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 68833	RunNo: 89565	
Prep Date:	7/16/2022	Analysis Date: 7/17/2022	SeqNo: 3188127 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		ND 1.5		
Sample ID:	MB-68838	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 68838	RunNo: 89577	
Prep Date:	7/17/2022	Analysis Date: 7/17/2022	SeqNo: 3188622 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		ND 1.5		
Sample ID:	LCS-68838	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 68838	RunNo: 89577	
Prep Date:	7/17/2022	Analysis Date: 7/17/2022	SeqNo: 3188623 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		14 1.5 15.00	0 96.3 90 110	
Sample ID:	MB-68858	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 68858	RunNo: 89579	
Prep Date:	7/18/2022	Analysis Date: 7/18/2022	SeqNo: 3189299 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		ND 1.5		
Sample ID:	LCS-68858	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 68858	RunNo: 89579	
Prep Date:	7/18/2022	Analysis Date: 7/18/2022	SeqNo: 3189300 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		14 1.5 15.00	0 93.9 90 110	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client: Project:		ex Resources Services, Inc. er AHH 001						
Sample ID:	MB-68862	SampType: mblk	Те	stCode: EPA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 68862		RunNo: 89579				
Prep Date:	7/18/2022	Analysis Date: 7/18/202	22	SeqNo: 3189329	Units: mg/Kg			
Analyte			value SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride		ND 1.5						
Sample ID:	LCS-68862	SampType: Ics	Те	stCode: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 68862		RunNo: 89579				
Prep Date:	7/18/2022	Analysis Date: 7/18/202	22	SeqNo: 3189330	Units: mg/Kg			
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride		14 1.5	15.00 0	96.1 90	110			
Sample ID:	MB-68850	SampType: mblk	Те	stCode: EPA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 68850		RunNo: 89601				
Prep Date:	7/18/2022	Analysis Date: 7/18/202	22	SeqNo: 3189774	Units: mg/Kg			
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride		ND 1.5						
Sample ID:	LCS-68850	SampType: Ics	Те	stCode: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 68850		RunNo: 89601				
Prep Date:	7/18/2022	Analysis Date: 7/18/202	22	SeqNo: 3189775	Units: mg/Kg			
Analyte		Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride		14 1.5	15.00 0	92.7 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Project: Cooper AHH 001 Sample ID: MB-68717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 68717 RunNo: 89483 Prep Date: 7/12/2022 Analysis Date: 7/15/2022 SeqNo: 3184880 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: DNOP 6.9 10.00 68.7 51.1 141	
Client ID: PBS Batch ID: 68717 RunNo: 89483 Prep Date: 7/12/2022 Analysis Date: 7/15/2022 SeqNo: 3184880 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	
Prep Date: 7/12/2022 Analysis Date: 7/15/2022 SeqNo: 3184880 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	
, , ,	
Surr: DNOP 6.9 10.00 68.7 51.1 141	Qual
Sample ID: LCS-68717 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS Batch ID: 68717 RunNo: 89483	
Prep Date: 7/12/2022 Analysis Date: 7/15/2022 SeqNo: 3184881 Units: %Rec	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP 2.8 5.000 55.5 51.1 141	
Sample ID: MB-68752 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS Batch ID: 68752 RunNo: 89486	
Prep Date: 7/13/2022 Analysis Date: 7/14/2022 SeqNo: 3186430 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO) ND 15	
Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.1 10.00 80.8 51.1 141	
Sample ID: LCS-68752 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS Batch ID: 68752 RunNo: 89486	
Prep Date: 7/13/2022 Analysis Date: 7/14/2022 SeqNo: 3186431 Units: mg/Kg	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitDiesel Range Organics (DRO)441550.00088.364.4127	Qual
Diesel Range Organics (DRO) 44 15 50.00 0 88.3 64.4 127 Surr: DNOP 3.8 5.000 76.1 51.1 141	
Sample ID:MB-68780SampType:MBLKTestCode:EPA Method 8015M/D: Diesel Range OrganicsClient ID:PBSBatch ID:68780RunNo:89483	
Client ID: PBS Batch ID: 68780 RunNo: 89483 Prep Date: 7/14/2022 Analysis Date: 7/15/2022 SeqNo: 3186689 Units: mg/Kg	
	Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Diesel Range Organics (DRO) ND 15	Qual
Motor Oil Range Organics (MRO) ND 50	
Surr: DNOP 8.8 10.00 87.8 51.1 141	
Sample ID: LCS-68780 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS Batch ID: 68780 RunNo: 89483	
Prep Date: 7/14/2022 Analysis Date: 7/15/2022 SeqNo: 3186690 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client: Project:	Vertex Res Cooper AF		rvices,	Inc.							
Sample ID: LC	CS-68780	SampTy	/pe: LC	S	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LC	CSS	Batch	ID: 687	780	F	RunNo: 89) 483				
Prep Date: 7	7/14/2022	Analysis Da	ate: 7/ *	15/2022	S	SeqNo: 31	186690	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga Surr: DNOP	anics (DRO)	48 4.7	15	50.00 5.000	0	96.1 94.8	64.4 51.1	127 141			
Sample ID: 22	207418-046AMS	SampTy	/pe: MS	;	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: W	S22-23 8-12'	Batch	ID: 687	780	F	RunNo: 8 9) 483				
Prep Date: 7	7/14/2022	Analysis Da	ate: 7/ *	16/2022	S	SeqNo: 31	187528	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	44	14	48.31	0	91.4	36.1	154			
Surr: DNOP		6.0		4.831		125	51.1	141			
Sample ID: 22	207418-046AMSD	SampTy	/pe: MS	D	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: W	S22-23 8-12'	Batch	ID: 687	780	F	RunNo: 8 9	9483				
Prep Date: 7	7/14/2022	Analysis Da	ate: 7/*	16/2022	S	SeqNo: 31	187529	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	48	15	49.65	0	97.3	36.1	154	8.98	33.9	
Surr: DNOP		6.1		4.965		122	51.1	141	0	0	
Sample ID: 22	207418-006AMS	SampTy	/pe: MS	;	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: BS	S22-67 20'	Batch	ID: 687	764	F	RunNo: 8 9) 518				
Prep Date: 7	7/13/2022	Analysis Da	ate: 7/ ′	14/2022	S	SeqNo: 31	187739	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	43	15	48.78	0	89.0	36.1	154			
Surr: DNOP		2.5		4.878		50.5	51.1	141			S
Sample ID: 22	207418-006AMSD	SampTy	/pe: MS	D	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: BS	S22-67 20'	Batch	ID: 687	764	F	RunNo: 8 9) 518				
Prep Date: 7	7/13/2022	Analysis Da	ate: 7/*	14/2022	5	SeqNo: 31	187740	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	42	15	49.21	0	85.7	36.1	154	2.91	33.9	
Surr: DNOP		2.2		4.921		44.7	51.1	141	0	0	S
Sample ID: LC	CS-68764	SampTy	/pe: LC	S	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LC	CSS	Batch	ID: 687	764	F	RunNo: 8 9	9518				
Prep Date: 7	7/13/2022	Analysis Da	ate: 7/ '	14/2022	S	SeqNo: 31	187760	Units: mg/K	g		
1											

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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20-Jul-22

	Resources Services, Inc. AHH 001	
Sample ID: LCS-68764	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 68764	RunNo: 89518
Prep Date: 7/13/2022	Analysis Date: 7/14/2022	SeqNo: 3187760 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	43 15 50.00	0 86.9 64.4 127
Surr: DNOP	3.8 5.000	76.7 51.1 141
Sample ID: MB-68764	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 68764	RunNo: 89518
Prep Date: 7/13/2022	Analysis Date: 7/14/2022	SeqNo: 3187761 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15	
Motor Oil Range Organics (MRO)	ND 50	20.0 51.4 144
Surr: DNOP	8.7 10.00	86.9 51.1 141
Sample ID: MB-68807	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 68807	RunNo: 89556
Prep Date: 7/15/2022	Analysis Date: 7/16/2022	SeqNo: 3187999 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15	
Motor Oil Range Organics (MRO)	ND 50	70.5 51.4 4.4
Surr: DNOP	7.1 10.00	70.5 51.1 141
Sample ID: LCS-68807	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 68807	RunNo: 89556
Prep Date: 7/15/2022	Analysis Date: 7/16/2022	SeqNo: 3188000 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	41 15 50.00	0 82.4 64.4 127
Surr: DNOP	3.1 5.000	63.0 51.1 141
Sample ID: MB-68805	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 68805	RunNo: 89556
Prep Date: 7/15/2022	Analysis Date: 7/16/2022	SeqNo: 3188001 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	6.1 10.00	61.5 51.1 141

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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20-Jul-22

Client:	Vertex Re		ervices,	Inc.							
Project:	Cooper Al	HH 001									
Sample ID:	LCS-68805	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 688	305	F	RunNo: 8 9	9556				
Prep Date:	7/15/2022	Analysis D	ate: 7/	16/2022	S	SeqNo: 31	188002	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.4		5.000		67.0	51.1	141			
Sample ID:	2207418-066AMS	SampT	уре: МS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WS22-26 0-4'	Batch	ID: 688	307	F	RunNo: 89	9556				
Prep Date:	7/15/2022	Analysis D	ate: 7/	16/2022	S	SeqNo: 31	188036	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	48	15	48.69	0	98.3	36.1	154			
Surr: DNOP		4.8		4.869		97.8	51.1	141			
Sample ID:	2207418-066AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WS22-26 0-4'	Batch	ID: 688	307	F	RunNo: 8 9	9556				
Prep Date:	7/15/2022	Analysis D	ate: 7/	16/2022	S	SeqNo: 31	188037	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	46	15	48.88	0	94.8	36.1	154	3.24	33.9	
Surr: DNOP	,	4.2		4.888		86.6	51.1	141	0	0	
Sample ID:	MB-68779	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 687	779	F	RunNo: 8 9	9525				
Prep Date:	7/14/2022	Analysis D	ate: 7/	15/2022	S	SeqNo: 31	188334	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO) ge Organics (MRO)	ND ND	15 50								
Surr: DNOP		8.2	50	10.00		81.8	51.1	141			
Sample ID:	LCS-68779	SamoT	ype: LC	e	Tee	tCode: EE	A Mothod	8015M/D: Die	col Dongo	Organias	
Client ID:			ID: 687			RunNo: 89		ou i Sivi/D. Die	sei Kange	Organics	
	7/14/2022	Analysis D		-		SeqNo: 31		Units: mg/K	a		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	36	15	50.00	0	72.9	64.4	127	Joint D		Quai
Surr: DNOP	o ()	3.7		5.000		75.0	51.1	141			
Sample ID:	2207418-026AMS	SampT	уре: МS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WS22-17 8-12'	Batch	ID: 687	779	F	RunNo: 8 9	9525		5	-	
Prep Date:	7/14/2022	Analysis D	ate: 7/	15/2022	S	SeqNo: 31	188337	Units: mg/K	g		
Prep Date: Analyte	7/14/2022	Analysis D Result	ate: 7/ PQL		SPK Ref Val	SeqNo: 3 1 %REC	LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2207418

20-Jul-22

	Vertex Resources Services, Inc. Cooper AHH 001									
Sample ID: 2207418-026AM	S Samp	Гуре: МS	6	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: WS22-17 8-12'	Batc	h ID: 687	779	F	RunNo: 8 9	9525				
Prep Date: 7/14/2022	Analysis [Date: 7/	15/2022	22 SeqNo: 3188337 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	15	49.02	0	77.5	36.1	154			
Surr: DNOP	5.0		4.902		102	51.1	141			
Sample ID: 2207418-026AM	SD Samp1	Гуре: МS	SD	Tes	tCode: EF	A Method	8015M/D: Die	esel Range	Organics	
Client ID: WS22-17 8-12'	Batc	h ID: 687	779	F	RunNo: 8 9	9525				
Prep Date: 7/14/2022	Analysis [alysis Date: 7/15/2022 SeqNo: 3188338 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	14	48.26	0	77.4	36.1	154	1.64	33.9	
Surr: DNOP	5.0		4.826		105	51.1	141	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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20-Jul-22

	esources Services,	Inc.							
Project: Cooper A	AHH 001								
Sample ID: mb-68728	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: PBS	Batch ID: 68	728	F	RunNo: 8 9	9532				
Prep Date: 7/12/2022	Analysis Date: 7/	15/2022	Ş	SeqNo: 3'	186586	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 830	1000		83.0	37.7	212			
Sample ID: mb-68733	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: PBS	Batch ID: 68	733	F	RunNo: 8 9	9532				
Prep Date: 7/12/2022	Analysis Date: 7/	15/2022	Ş	SeqNo: 3'	186610	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 800	1000		80.4	37.7	212			
Sample ID: 2207418-006ams	SampType: MS	3	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: BS22-67 20'	Batch ID: 68	733	F	RunNo: 8 9	9532				
Prep Date: 7/12/2022	Analysis Date: 7/	15/2022	5	SeqNo: 3	186612	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20 4.6	23.23	0	87.9	70	130			
Surr: BFB	1600	929.4		176	37.7	212			
Sample ID: 2207418-006amsd	SampType: MS	SD	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: BS22-67 20'	Batch ID: 68	733	F	RunNo: 8 9	9532				
Prep Date: 7/12/2022	Analysis Date: 7/	15/2022	S	SeqNo: 3	186613	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20 4.6	23.17	0	85.0	70	130	3.61	20	
Surr: BFB	1600	926.8		175	37.7	212	0	0	
Sample ID: mb-68756	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: PBS	Batch ID: 68	756	F	RunNo: 8 9	9514				
Prep Date: 7/13/2022	Analysis Date: 7/	16/2022	\$	SeqNo: 3	187188	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000	1000		101	37.7	212			
Sample ID: Ics-68756	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: LCSS	Batch ID: 68	756	F	RunNo: 8 9	9514				
Prep Date: 7/13/2022	Analysis Date: 7/	16/2022	S	SeqNo: 3'	187189	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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20-Jul-22

Client:Vertex ReProject:Cooper Al	esources Services, HH 001	Inc.							
Sample ID: Ics-68756	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID: 687	756	F	RunNo: 89	9514				
Prep Date: 7/13/2022	Analysis Date: 7/1	16/2022	S	SeqNo: 31	187189	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	23 5.0 2000	25.00 1000	0	93.2 198	72.3 37.7	137 212			
Sample ID: 2207418-026ams	SampType: MS	;	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: WS22-17 8-12'	Batch ID: 687	756	F	RunNo: 89	9514				
Prep Date: 7/13/2022	Analysis Date: 7/1	16/2022	S	SeqNo: 31	187191	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 4.8	24.11	0	92.6	70	130			
Surr: BFB	1900	964.3		200	37.7	212			
Sample ID: 2207418-026amsd	SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: WS22-17 8-12'	Batch ID: 687	756	F	RunNo: 8 9	9514				
Prep Date: 7/13/2022	Analysis Date: 7/1	16/2022	S	SeqNo: 31	187192	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 4.8	24.15	0	90.6	70	130	1.95	20	
Surr: BFB	1900	966.2		197	37.7	212	0	0	
Sample ID: LCS-68757	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID: 687	57	F	RunNo: 89	9546				
Prep Date: 7/13/2022	Analysis Date: 7/1	16/2022	5	SeqNo: 31	187320	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	93.5	72.3	137			
Surr: BFB	1900	1000		189	37.7	212			
Sample ID: mb-68757	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 687	757	F	RunNo: 8 9	9546				
Prep Date: 7/13/2022							~		
	Analysis Date: 7/1	16/2022	S	SeqNo: 31	187321	Units: mg/K	g		
Analyte	Analysis Date: 7/ Result PQL		SPK Ref Val	SeqNo: 31 %REC	LowLimit	Units: mg/K HighLimit	9 %RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO) Surr: BFB						-	-	RPDLimit	Qual
Gasoline Range Organics (GRO)	Result PQL ND 5.0	SPK value 1000	SPK Ref Val	%REC 90.6	LowLimit 37.7	HighLimit	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB	Result PQL ND 5.0 910	SPK value 1000	SPK Ref Val	%REC 90.6	LowLimit 37.7 PA Method	HighLimit 212	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2207418-046ams	Result PQL ND 5.0 910 SampType: MS	SPK value 1000	SPK Ref Val Tes	%REC 90.6 tCode: EF	LowLimit 37.7 PA Method 9546	HighLimit 212	%RPD		Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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20-Jul-22

Client: Project:	Vertex Re Cooper A		ervices,	Inc.							
Sample ID:	2207418-046ams	SampT	ype: MS	6	Tes	stCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	WS22-23 8-12'	Batch	n ID: 687	757	F	RunNo: 8 9	9546				
Prep Date:	7/13/2022	Analysis D)ate: 7/	16/2022	S	SeqNo: 31	187323	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	20	4.9	24.68	0	80.2	70	130			
Surr: BFB		1700		987.2		176	37.7	212			
Sample ID:	2207418-046AMSD	SampT	уре: МS	SD	Tes	stCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	WS22-23 8-12'	Batch	n ID: 687	757	F	RunNo: 8 9	9546				
Prep Date:	7/13/2022	Analysis D)ate: 7/ *	16/2022	S	SeqNo: 31	187324	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	20	4.8	24.15	0	84.0	70	130	2.58	20	
Surr: BFB		1700		966.2		180	37.7	212	0	0	
Sample ID:	LCS-68797	SampT	ype: LC	S	Tes	stCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	LCSS	Batch	n ID: 687	797	F	RunNo: 8 9	9546				
Prep Date:	7/14/2022	Analysis D)ate: 7/ *	16/2022	S	SeqNo: 31	187344	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	89.9	72.3	137			
Surr: BFB		1900		1000		186	37.7	212			
Sample ID:	mb-68797	SampT	уре: МВ	BLK	Tes	stCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	PBS	Batch	n ID: 687	797	F	RunNo: 8 9	9546				
Prep Date:	7/14/2022	Analysis D)ate: 7/*	16/2022	S	SeqNo: 31	187345	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		820		1000		81.6	37.7	212			
Sample ID:	2207418-066ams	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	WS22-26 0-4'	Batch	n ID: 687	797	F	RunNo: 8 9	9546				
Prep Date:	7/14/2022	Analysis D)ate: 7/	16/2022	S	SeqNo: 31	187347	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	21	5.0	24.75	0	85.4	70	130			
Surr: BFB		1800		990.1		184	37.7	212			
Sample ID:	2207418-066amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	WS22-26 0-4'	Batch	n ID: 687	797	F	RunNo: 8 9	9546				
Prep Date:	7/14/2022	Analysis D)ate: 7/	16/2022	5	SeqNo: 31	187348	Units: mg/K	g		
1											

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

WO#: 2207418 20-Jul-22

Client: Project:	Vertex Re Cooper A		ervices,	Inc.							
Sample ID:	2207418-066amsd	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	•	
Client ID:	WS22-26 0-4' Batch ID: 68797				F	RunNo: 8 9	546				
Prep Date:	7/14/2022	Analysis E	Date: 7/*	6/2022	S	SeqNo: 31	87348	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	21	5.0	24.78	0	86.3	70	130	1.17	20	
Surr: BFB		1800		991.1		184	37.7	212	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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20-Jul-22

Client:	Vertex Re		ervices,	Inc.							
Project:	Cooper A	HH 001									
Sample ID:	mb-68728	SampT	Гуре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	iles		
Client ID:	PBS	Batcl	h ID: 687	28	F	RunNo: 89	532				
Prep Date:	7/12/2022	Analysis E	Date: 7/*	15/2022	S	SeqNo: 31	86634	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.85		1.000		84.7	70	130			
Sample ID:	mb-68733	SampT	Гуре: МВ	BLK	Tes	tCode: EP	A Method	8021B: Volati	iles		
Client ID:	PBS	Batcl	h ID: 687	/33	F	RunNo: 89	532				
Prep Date:	7/12/2022	Analysis [Date: 7/1	15/2022	5	SeqNo: 31	86658	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.80		1.000		80.4	70	130			
Sample ID:	2207418-007ams	SampT	Гуре: МЅ	;	Tes	tCode: EP	A Method	8021B: Volati	iles		
Sample ID: Client ID:	2207418-007ams BS22-68 20'	•	Гуре: МS h ID: 687			tCode: EP RunNo: 89		8021B: Volati	iles		
		•	h ID: 687	733	F		532	8021B: Volati Units: mg/K			
Client ID:	BS22-68 20'	Batcl	h ID: 687	7 33 1 5/2022 SPK value	F	RunNo: 89	532	Units: mg/K HighLimit		RPDLimit	Qual
Client ID: Prep Date: Analyte	BS22-68 20'	Batcl Analysis I Result 0.82	h ID: 687 Date: 7/ 1	733 15/2022 SPK value 0.9524	F S	RunNo: 89 SeqNo: 31 %REC 86.4	86661 LowLimit 68.8	Units: mg/K HighLimit 120	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene	BS22-68 20'	Batcl Analysis I Result 0.82 0.83	h ID: 687 Date: 7/* PQL 0.024 0.048	733 15/2022 SPK value 0.9524 0.9524	F S SPK Ref Val 0 0	RunNo: 89 SeqNo: 31 %REC 86.4 87.3	86661 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene	BS22-68 20'	Batcl Analysis I Result 0.82 0.83 0.83	h ID: 687 Date: 7/1 PQL 0.024	733 15/2022 SPK value 0.9524	F SPK Ref Val 0	RunNo: 89 SeqNo: 31 %REC 86.4	86661 LowLimit 68.8 73.6 72.7	Units: mg/K HighLimit 120	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	BS22-68 20' 7/12/2022	Batcl Analysis I Result 0.82 0.83	h ID: 687 Date: 7/* PQL 0.024 0.048	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857	F S SPK Ref Val 0 0	RunNo: 89 SeqNo: 31 %REC 86.4 87.3	86661 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BS22-68 20' 7/12/2022	Batcl Analysis I Result 0.82 0.83 0.83	h ID: 687 Date: 7/* PQL 0.024 0.048 0.048	733 15/2022 SPK value 0.9524 0.9524 0.9524	F SPK Ref Val 0 0 0	RunNo: 89 SeqNo: 31 <u>%REC</u> 86.4 87.3 87.3	86661 LowLimit 68.8 73.6 72.7	Units: mg/K HighLimit 120 124 129	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BS22-68 20' 7/12/2022	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78	h ID: 687 Date: 7/* PQL 0.024 0.048 0.048	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524	F SPK Ref Val 0 0 0 0	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2	86661 LowLimit 68.8 73.6 72.7 75.7 70	Units: mg/K HighLimit 120 124 129 126	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 SampT	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524 5D	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method	Units: mg/K HighLimit 120 124 129 126 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 SampT	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524 5D 733	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EP	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 2532	Units: mg/K HighLimit 120 124 129 126 130	íg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd BS22-68 20'	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 Samp Batcl	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524 5D 733 15/2022	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EP RunNo: 89	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 2532	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati	íg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd BS22-68 20'	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 Samp Batcl Analysis I	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687 Date: 7/	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524 5D 733 15/2022	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EP RunNo: 89 SeqNo: 31	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 2532 86662	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati	g %RPD iles		
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd BS22-68 20'	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 Samp Batcl Analysis I Result	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687 Date: 7/ PQL	733 15/2022 SPK value 0.9524 0.9524 0.9524 2.857 0.9524 50 733 15/2022 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EF RunNo: 89 SeqNo: 31 %REC	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 5532 86662 LowLimit	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit	29 %RPD (iles 29 %RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd BS22-68 20'	Batcl Analysis I Result 0.82 0.83 0.83 2.5 0.78 Samp Batcl Analysis I Result 0.85	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687 Date: 7/ PQL 0.024	733 15/2022 SPK value 0.9524 0.9524 2.857 0.9524 2.857 0.9524 50 733 15/2022 SPK value 0.9606	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EF RunNo: 89 SeqNo: 31 %REC 88.4	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 5532 86662 LowLimit 68.8	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120	5g %RPD iles 5g %RPD 3.22	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	BS22-68 20' 7/12/2022 nofluorobenzene 2207418-007amsd BS22-68 20' 7/12/2022	Batcl Analysis I 0.82 0.83 0.83 2.5 0.78 Samp ¹ Batcl Analysis I Result 0.85 0.86	h ID: 687 Date: 7/ PQL 0.024 0.048 0.048 0.095 Type: MS h ID: 687 Date: 7/ PQL 0.024 0.048	733 15/2022 SPK value 0.9524 0.9524 2.857 0.9524 2.857 0.9524 33 15/2022 SPK value 0.9606 0.9606 0.9606	F SPK Ref Val 0 0 0 0 Tes SPK Ref Val 0 0	RunNo: 89 SeqNo: 31 %REC 86.4 87.3 87.3 86.2 82.2 tCode: EF RunNo: 89 SeqNo: 31 %REC 88.4 89.3	2532 86661 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 532 86662 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati 8021B: Volati Units: mg/K HighLimit 120 124	29 %RPD iles 29 %RPD 3.22 3.16	RPDLimit 20 20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2207418

20-Jul-22

Client: Project:	Vertex Re Cooper Al		ervices,	Inc.							
Sample ID:	-		Туре: МЕ	SI K	Tes	stCode: FF	PA Method	8021B: Volat	iles		
-	PBS		h ID: 687			RunNo: 8 9		002121 10101			
Prep Date:	7/13/2022	Analysis [SeqNo: 31		Units: mg/K	ία.		
·	1113/2022							•	-		
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	-fluench	ND	0.10	4 000		400	70	400			
Surr: 4-Brom	ofluorobenzene	1.0		1.000		102	70	130			
Sample ID:	LCS-68756	Samp ⁻	Туре: LC	S	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 687	756	F	RunNo: 8 9	9514				
Prep Date:	7/13/2022	Analysis [Date: 7/	16/2022	\$	SeqNo: 31	87264	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	1.000	0	98.0	80	120			
Toluene		1.0	0.050	1.000	0	101	80	120			
Ethylbenzene		1.0	0.050	1.000	0	101	80	120			
Xylenes, Total		3.0	0.10	3.000	0	100	80	120			
Surr: 4-Brom	ofluorobenzene	1.0		1.000		102	70	130			
Sample ID:	2207418-027ams	Samp	Type: MS	5	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	WS22-17 12-16'	Batc	h ID: 687	756	F	RunNo: 8 9	9514				
Prep Date:	7/13/2022	Analysis [Date: 7/	16/2022	\$	SeqNo: 31	87267	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.024	0.9597	0	94.6	68.8	120			
Toluene		0.94	0.048	0.9597	0	97.7	73.6	124			
Ethylbenzene		0.95	0.048	0.9597	0	99.0	72.7	129			
Xylenes, Total		2.8	0.096	2.879	0	98.4	75.7	126			
Surr: 4-Brom	ofluorobenzene	1.0		0.9597		104	70	130			
Sample ID:	2207418-027amsd	Samp	Type: MS	D	Tes	stCode: EF	A Method	8021B: Volat	iles		
Client ID:	WS22-17 12-16'	Batc	h ID: 687	756	F	RunNo: 8 9	9514				
Prep Date:	7/13/2022	Analysis [Date: 7/	16/2022	Ş	SeqNo: 31	87268	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.024	0.9488	0	96.9	68.8	120	1.28	20	
Toluene		0.95	0.047	0.9488	0	100	73.6	124	1.33	20	
Ethylbenzene		0.95	0.047	0.9488	0	100	72.7	129	0.210	20	
Xylenes, Total		2.8	0.095	2.846	0	99.2	75.7	126	0.238	20	
Surr: 4-Brom	ofluorobenzene	0.97		0.9488		102	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client: Project:	Vertex Re Cooper A		ervices,	Inc.							
Sample ID:	LCS-68757	Samp	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 687	757	F	RunNo: 89	546				
Prep Date:	7/13/2022	Analysis [Date: 7/ *	16/2022	S	SeqNo: 31	87368	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.88	0.025	1.000	0	88.2	80	120			
Toluene		0.88	0.050	1.000	0	88.3	80	120			
Ethylbenzene		0.88	0.050	1.000	0	88.4	80	120			
Xylenes, Total		2.6	0.10	3.000	0	87.5	80	120			
Surr: 4-Bron	nofluorobenzene	0.84		1.000		84.4	70	130			
Sample ID:	mb-68757	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 687	757	F	RunNo: 89	546				
Prep Date:	7/13/2022	Analysis [Date: 7/	16/2022	S	SeqNo: 31	87369	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.87		1.000		87.3	70	130			
	2207418-047ams		Гуре: МS		Tes			130 8021B: Volat	iles		
		Samp	Гуре: МS h ID: 687	;			PA Method		iles		
Sample ID:	2207418-047ams	Samp	h ID: 687	5 757	F	tCode: EF	PA Method 9546				
Sample ID: Client ID:	2207418-047ams WS22-23 12-15'	Samp ⁻ Batc	h ID: 687	5 757	F	tCode: EF RunNo: 89	PA Method 9546	8021B: Volat		RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene	2207418-047ams WS22-23 12-15'	Samp Batc Analysis I Result 0.81	h ID: 687 Date: 7/ PQL 0.025	7 57 16/2022 SPK value 0.9950	F SPK Ref Val 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7	PA Method 9546 87372 LowLimit 68.8	8021B: Volat Units: mg/K HighLimit 120	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2207418-047ams WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83	h ID: 687 Date: 7/ PQL 0.025 0.050	757 16/2022 SPK value 0.9950 0.9950	F SPK Ref Val 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0	PA Method 1546 187372 LowLimit 68.8 73.6	8021B: Volat Units: mg/k HighLimit 120 124	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	2207418-047ams WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050	757 16/2022 SPK value 0.9950 0.9950 0.9950	F SPK Ref Val 0 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1	PA Method 9546 87372 LowLimit 68.8 73.6 72.7	8021B: Volat Units: mg/K HighLimit 120 124 129	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2207418-047ams WS22-23 12-15' 7/13/2022	Samp Batc Analysis I Result 0.81 0.83 0.83 0.83 2.5	h ID: 687 Date: 7/ PQL 0.025 0.050	57 16/2022 SPK value 0.9950 0.9950 0.9950 2.985	F SPK Ref Val 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3	PA Method 0546 187372 LowLimit 68.8 73.6 72.7 75.7	8021B: Volat Units: mg/K HighLimit 120 124 129 126	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2207418-047ams WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050	757 16/2022 SPK value 0.9950 0.9950 0.9950	F SPK Ref Val 0 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1	PA Method 9546 87372 LowLimit 68.8 73.6 72.7	8021B: Volat Units: mg/K HighLimit 120 124 129	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	2207418-047ams WS22-23 12-15' 7/13/2022	Samp ⁻ Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050	5 757 16/2022 SPK value 0.9950 0.9950 0.9950 2.985 0.9950	F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6	PA Method 9546 187372 LowLimit 68.8 73.6 72.7 75.7 70	8021B: Volat Units: mg/K HighLimit 120 124 129 126	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	2207418-047ams WS22-23 12-15' 7/13/2022	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10	757 16/2022 SPK value 0.9950 0.9950 0.9950 2.985 0.9950	F SPK Ref Val 0 0 0 0 0 Tes	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6	24 Method 2546 87372 LowLimit 68.8 73.6 72.7 75.7 70 24 Method	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID:	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS	757 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 2.985 0.9950 5D 757	F SPK Ref Val 0 0 0 0 Tes F	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF	PA Method 9546 187372 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID:	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84 Samp Batc	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS	5 757 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 5D 757 16/2022	F SPK Ref Val 0 0 0 0 Tes F	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF RunNo: 89	PA Method 9546 187372 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130 8021B: Volat	(g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date:	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84 Samp Batc Analysis I	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS h ID: 687 Date: 7/	5 757 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 5D 757 16/2022	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF RunNo: 89 SeqNo: 31	PA Method 9546 87372 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546 87373	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130 8021B: Volat Units: mg/K	(g %RPD iles		
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84 Samp Batc Analysis I Result	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS h ID: 687 Date: 7/ PQL	757 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 2.985 0.9950 50 757 16/2022 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF RunNo: 89 SeqNo: 31 %REC	24 Method 2546 267372 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 2546 187373 LowLimit	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130 8021B: Volat Units: mg/K HighLimit	Kg %RPD iles Kg %RPD	RPDLimit	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd WS22-23 12-15'	Samp Batc Analysis I Result 0.81 0.83 0.83 2.5 0.84 Samp Batc Analysis I Result 0.80	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS h ID: 687 Date: 7/ PQL 0.025	757 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 2.985 0.9950 50 757 16/2022 SPK value 0.9921	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF RunNo: 89 SeqNo: 31 %REC 81.0	PA Method 9546 187372 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546 187373 LowLimit 68.8	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130 8021B: Volat Units: mg/K HighLimit 120	(g %RPD iles (g %RPD 1.21	RPDLimit 20	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2207418-047ams WS22-23 12-15' 7/13/2022 nofluorobenzene 2207418-047amsd WS22-23 12-15'	Samp ^T Batc Analysis I Result 0.83 0.83 2.5 0.84 Samp ^T Batc Analysis I Result 0.80 0.82	h ID: 687 Date: 7/ PQL 0.025 0.050 0.050 0.10 Type: MS h ID: 687 Date: 7/ PQL 0.025 0.050	57 16/2022 SPK value 0.9950 0.9950 2.985 0.9950 2.985 0.9950 50 57 16/2022 SPK value 0.9921 0.9921 0.9921 0.9921	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	tCode: EF RunNo: 89 SeqNo: 31 %REC 81.7 83.0 83.1 82.3 84.6 tCode: EF RunNo: 89 SeqNo: 31 %REC 81.0 82.4	PA Method 9546 187372 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546 187373 LowLimit 68.8 73.6	8021B: Volat Units: mg/K HighLimit 120 124 129 126 130 8021B: Volat Units: mg/K HighLimit 120 124	59 %RPD iles 59 %RPD 1.21 1.01	RPDLimit 20 20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Client: Project:	Vertex Re Cooper A		Services,	Inc.							
Sample ID:	LCS-68797	Samp	Туре: LC	s	Tes	tCode: EF	A Method	8021B: Volati	iles		
Client ID:	LCSS	Batc	h ID: 687	/97	F	RunNo: 89	546				
Prep Date:	7/14/2022	Analysis [Date: 7/ *	16/2022	S	SeqNo: 31	87392	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	93.1	80	120			
Toluene		0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene		0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total		2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Brom	ofluorobenzene	0.82		1.000		82.1	70	130			
Sample ID:	mb-68797	Samp	Туре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	iles		
Client ID:	PBS	Batc	h ID: 687	/97	F	RunNo: 89	546				
Prep Date:	7/14/2022	Analysis [Date: 7/ *	16/2022	S	SeqNo: 31	87393	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	0.81		1.000		80.8	70	130			
Sample ID:	2207418-067ams	Samp	Type: MS	;	Tes	tCode: EF	A Method	8021B: Volati	iles		
Client ID:	WS22-27 0-4'	Batc	h ID: 687	797	F	RunNo: 89	546				
Prep Date:				•							
	7/14/2022	Analysis [Date: 7/ *			SeqNo: 31	87396	Units: mg/K	g		
Analyte	7/14/2022	Analysis I Result	Date: 7/ PQL	17/2022			87396 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Analyte Benzene	7/14/2022	Result 0.85	PQL 0.025	17/2022 SPK value 0.9980	SPK Ref Val	SeqNo: 3 1 %REC 85.3	LowLimit 68.8	HighLimit 120	-	RPDLimit	Qual
Benzene Toluene	7/14/2022	Result 0.85 0.87	PQL 0.025 0.050	17/2022 SPK value 0.9980 0.9980	SPK Ref Val	SeqNo: 31 %REC 85.3 86.7	LowLimit 68.8 73.6	HighLimit 120 124	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene	7/14/2022	Result 0.85 0.87 0.86	PQL 0.025 0.050 0.050	17/2022 SPK value 0.9980 0.9980 0.9980	SPK Ref Val 0 0 0	SeqNo: 3 1 %REC 85.3 86.7 85.7	LowLimit 68.8 73.6 72.7	HighLimit 120 124 129	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total		Result 0.85 0.87 0.86 2.5	PQL 0.025 0.050	SPK value 0.9980 0.9980 0.9980 0.9980 2.994	SPK Ref Val 0 0	SeqNo: 31 %REC 85.3 86.7 85.7 84.6	LowLimit 68.8 73.6 72.7 75.7	HighLimit 120 124 129 126	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total	7/14/2022	Result 0.85 0.87 0.86	PQL 0.025 0.050 0.050	17/2022 SPK value 0.9980 0.9980 0.9980	SPK Ref Val 0 0 0	SeqNo: 3 1 %REC 85.3 86.7 85.7	LowLimit 68.8 73.6 72.7	HighLimit 120 124 129	-	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr		Result 0.85 0.87 0.86 2.5 0.84	PQL 0.025 0.050 0.050	SPK value 0.9980 0.9980 0.9980 0.9980 2.994 0.9980	SPK Ref Val 0 0 0 0	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7	LowLimit 68.8 73.6 72.7 75.7 70	HighLimit 120 124 129 126	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr	ofluorobenzene	Result 0.85 0.87 0.86 2.5 0.84 Samp	PQL 0.025 0.050 0.050 0.10	17/2022 SPK value 0.9980 0.9980 0.9980 2.994 0.9980	SPK Ref Val 0 0 0 0 0 Tes	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7	LowLimit 68.8 73.6 72.7 75.7 70 PA Method	HighLimit 120 124 129 126 130	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID:	ofluorobenzene 2207418-067amsd	Result 0.85 0.87 0.86 2.5 0.84 Samp	PQL 0.025 0.050 0.10 Type: MS h ID: 687	17/2022 SPK value 0.9980 0.9980 2.994 0.9980 5D 797	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7 tCode: EF	LowLimit 68.8 73.6 72.7 75.7 70 24 Method	HighLimit 120 124 129 126 130	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID:	ofluorobenzene 2207418-067amsd WS22-27 0-4'	Result 0.85 0.87 0.86 2.5 0.84 Samp Batc Analysis I Result	PQL 0.025 0.050 0.10 Type: MS h ID: 687 Date: 7 /* PQL	17/2022 SPK value 0.9980 0.9980 2.994 0.9980 30 50 797 17/2022 SPK value	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7 tCode: EF RunNo: 89 SeqNo: 31 %REC	LowLimit 68.8 73.6 72.7 75.7 70 24 Method 2546 187397 LowLimit	HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	ofluorobenzene 2207418-067amsd WS22-27 0-4'	Result 0.85 0.87 0.86 2.5 0.84 Samp Batc Analysis I Result 0.94	PQL 0.025 0.050 0.10 Type: MS h ID: 687 Date: 7 / PQL 0.025	17/2022 SPK value 0.9980 0.9980 2.994 0.9980 50 797 17/2022 SPK value 0.9940	SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7 tCode: EF RunNo: 89 SeqNo: 31 %REC 94.1	LowLimit 68.8 73.6 72.7 75.7 70 PA Method 87397 LowLimit 68.8	HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120	%RPD iles %RPD 9.35	RPDLimit 20	
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	ofluorobenzene 2207418-067amsd WS22-27 0-4'	Result 0.85 0.87 0.86 2.5 0.84 Samp Batc Analysis I Result 0.94 0.95	PQL 0.025 0.050 0.10 Type: MS h ID: 687 Date: 7/ PQL 0.025 0.050	17/2022 SPK value 0.9980 0.9980 2.994 0.9980 5D 797 17/2022 SPK value 0.9940 0.9940 0.9940	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0	SeqNo: 31 %REC 85.3 86.7 85.7 84.6 83.7 tCode: EF RunNo: 89 SeqNo: 31 %REC 94.1 95.6	LowLimit 68.8 73.6 72.7 75.7 70 PA Method 9546 187397 LowLimit 68.8 73.6	HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120 124	%RPD iles %RPD 9.35 9.31	RPDLimit 20 20	
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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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WO#: 2207418 20-Jul-22

ANA		0:49:41 AM	Н	all Environn EL: 505-345 Website: wy	49 Albuquer -3975 FAX	01 Hawk que, NM 505-34.	kins NE 87109 S 5-4107	Sar	nple Log-In	Chec	Page 5
Client Name:	Vertex Re Services,		Wor	k Order Nu	mber: 220	7418			RcptN	No: 1	
Received By:	Cheyen	ne Cason	7/12/2	022 7:20:00	MAG		Chul	2			
Completed By: Reviewed By:			7/12/2	022 8:34:17	AM		Chenl Chenl	-			
	9/1 7/1	100									
Chain of Cu	stody										
1. Is Chain of	Custody com	plete?			Yes		No		Not Present	1	
2. How was the	e sample del	ivered?			Cou	rier					
Log In											
3. Was an atte	mpt made to	cool the sam	oles?		Yes		No				
4. Were all sam	ples receive	d at a temper	ature of >0° C	to 6.0°C	Yes		No				
5. Sample(s) in	proper cont	ainer(s)?			Yes		No				
6. Sufficient sar	nple volume	for indicated t	est(s)?		Yes	~	No [1			
7. Are samples	(except VOA	and ONG) pr	operly preserv	ed?	Yes	~	No [
8. Was preserve	ative added t	o bottles?			Yes		No No		NA 🗌		
9. Received at I	east 1 vial wi	ith headspace	<1/4" for AQ \	/OA?	Yes		No [NA 🗹		
10. Were any sa	mple contain	ers received t	oroken?		Yes		No	~	# of preserved		/
11. Does paperw (Note discrep		ottle labels? ain of custody	()		Yes	•	No []	bottles checked for pH: (<2)	or ≥12 un	less noted)
12. Are matrices	correctly ide	ntified on Cha	in of Custody?		Yes	~	No 🗌	3	Adjusted?	-	14 C 2 S 3
13. Is it clear what			17		Yes	~	No 🗌	1		1.0.25	
14. Were all hold (If no, notify c					Yes	~	No 🗌		Checked by:	KR	7.12.
Special Hand	ling (if ap	olicable)									
15. Was client no	otified of all d	liscrepancies	with this order'	?	Yes		No [NA 🗹		
Person	Notified:	1		Date		-	-	-			
By Who		1		Via:	🗌 eMa	il 🗌 I	Phone 🗌 F	ax	In Person		
Regard Client I	ing: nstructions:	1									
16. Additional re											
17. Cooler Infor											
Cooler No	and the second second second	Condition	Seal Intact	Seal No	Seal Da	te	Signed By				
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3	2.5	Good Good									

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		Project #:		Tel. 5	Tel. 505-345-3975		Fax 50	Albuquerque, NM 87109 Fax 505-345-4107	30/20
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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	139395
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	2/24/2023

Page 602 of 602

Action 139395

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