

April 15, 2024

Vertex Project #: 23E-03658

Spill Closure Report:	Siebert #1 Production Facility (Section 15, Township 23 South, Range 28 East)		
	API: 30-015-26322		
	County: Eddy		
	Incident Report: nAPP2111646040		
Prepared For:	BTA Oil Producers, LLC		
	104 S. Pecos Street		
	Midland, Texas 79701		

New Mexico Oil Conservation Division – District 2 811 S. 1st Street Artesia, New Mexico 88210

BTA Oil Producers, LLC (BTA) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of crude oil from a broken site glass at the Siebert #1 Production Facility, API 30-015-26322, Incident nAPP2111646040 (hereafter referred to as "site"). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.31103, W -104.06827.

This letter provides a description of the release assessment and remediation activities and demonstrates that closure criteria established in Table I of *19.15.29.12 New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the closure of this release.

Incident Description

The spill occurred on April 24, 2021, due to a sight glass breaking. The spill was reported on April 26, 2021, and involved the release of approximately 10 barrels (bbl.) of crude oil into the unlined earthen-berm containment and oversprayed the adjacent private property. Approximately 5 bbl. of free fluid were removed during the initial spill clean-up. The NMOCD C-141 Report: nAPP2111646040 is included in Attachment 1.

Background

The site is located approximately 2.36 miles northeast of Loving, New Mexico (Google Inc., 2024). The legal location for the site is Section 15, Township 23 South and Range 28 East in Eddy County, New Mexico. The spill area is located on private property. An aerial photograph and site schematic are included in Attachment 2.

The site is typical of oil and gas exploration and production sites on the western portion of the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on the south edge of the constructed pad where the heater treater is located (Attachment 2 – Figure 1).

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The surrounding landscape is associated with the ridges, fans, fan remnants, and alluvial fans with elevations ranging between 1,100 and 5,300 feet. The climate is semiarid with average annual precipitation ranging between 7 and 15 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be principally tobosa, black grama, and blue grama. Grasses with shrubs and half-shrubs dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology comprises primarily of Qa – Alluvium Formation (Holocene to upper Pleistocene) and is characterized as gravelly loam. The predominant soil texture on the site is Upton gravelly loam and Upton soils. The soil is well drained with low to high runoff. The karst geology potential for the site is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 0.45 miles east of the site. There are no continuously flowing or significant watercourses, lakebeds, playa lakes, or other critical water features at the site. The nearest residence is located approximately 166 feet east of the site, which hinders the requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to the site is an New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 0.16 miles northeast of the site (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2023). Data from 2020 shows the NMOSE well had a depth to groundwater of 57 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 4.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Table 1) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Siebert #1 Production Facility nAPP2111646040

Page 3 of 181

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Table 1. C	losure Criteria Worksheet			
Site Name	: Siebert #1 Production Facility			
Spill Coordinates:		X: 32.31130	Y: -104.06830	
Site Speci	fic Conditions	Value	Unit	
1	Depth to Groundwater	<50	feet	
2	Within 300 feet of any continuously flowing	2 200	C	
Z	watercourse or any other significant watercourse	2,390	teet	
Within 200 feet of any lakebed, sinkhole or playa lake		6 277	foot	
5	(measured from the ordinary high-water mark)	0,377	teet	
4	Within 300 feet from an occupied residence, school,	166	foot	
4	hospital, institution or church	100	Teet	
	i) Within 500 feet of a spring or a private, domestic			
-	fresh water well used by less than five households for	771	feet	
5	domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or spring		feet	
	Within incorporated municipal boundaries or within a			
	defined municipal fresh water field covered under a			
6	municipal ordinance adopted pursuant to Section 3-27-	No	(Y/N)	
	3 NMSA 1978 as amended, unless the municipality			
	specifically approves			
7	Within 300 feet of a wetland	2,420	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
			Critical	
		Medium	High	
9	within an unstable area (Karst Map)		Medium	
			Low	
		Above 500 year flood		
10	With the state of the state to	level and protected		
10	Within a 100-year Floodplain	by levee from 100	year	
		year flood		
11	Soil Туре	Upton gravelly loam and Upton soils		
12	Ecological Classification	Shallow		
		Sha		
13	Geology	Qa		
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	

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BTA Oil Producers, LLC	
Siebert #1 Production Facility nAPP2111646040	

Based on the data included in the closure criteria determination worksheet, the release at the site is subject to one of the requirements set forth in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. There is a residence located within 300 feet of the release site; therefore, the closure criteria for the site is determined to be associated with the following constituent concentration limits (Table 2).

Table 2. 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	
< EQ fact	TPH (GRO+DRO+MRO)	100 mg/kg	
	BTEX	50 mg/kg	
	Benzene	10 mg/kg	

TDS - Total dissolved solids

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) BTEX – Benzene, toluene, ethylbenzene, and xylenes

Remedial Actions Taken

An initial site inspection of the spill area was completed on April 26, 2021, which identified the area of the spill specified in the initial C-141 Report and estimated the approximate volume of the release. The impacted area was determined to be approximately 96 feet long and 78 feet wide; the total affected area was determined to be 5,222 square feet. The release and overspray areas were sampled during initial characterization in 2021 and samples from the areas were submitted for laboratory analysis that determined the extent of the affected area. Initial characterization screening and laboratory results are included in Table 3 (Attachment 3).

Remediation efforts began on April 28, 2021, and were halted on May 11, 2021. Excavation and confirmation sampling for the release area and overspray area outside of the containment continued on July 31, 2023 and were completed on August 3, 2023. Vertex personnel supervised the excavation of impacted soils during both events. Field screening was completed on a total of 37 sample points from within the excavation inside and outside of the containment area. The soil was removed to depths ranging from 0.5 to 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The DFR with photographs of the excavation inside and outside of the containment area during both events are presented in Attachment 5. Notifications that confirmatory samples were being collected were provided to NMOCD before each sampling event and are included in Attachment 6, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC.

Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

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Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including DRO, MRO, and GRO. Confirmatory sample analytical data are summarized in Table 4 (Attachment 3). Laboratory data reports and chain of custody forms are included in Attachment 7.

Closure Denial – February 7, 2024

Vertex and BTA requested closure for the release through C-141N on September 13, 2023, with the remedial activities described above. On February 7, 2024, closure was denied by NMOCD due to a lack of data on the potentially impacted area between the point of release and the residence adjacent to the site directly to the east. As stated in the initial C-141, the overspray spread onto the adjacent property and the home. The home, outbuildings, pond, and vehicles were pressure washed, and all free liquid was removed. An internal agreement between BTA and the homeowner was reached.

On March 26, 2024, Vertex visited the site to perform additional delineation of the private land between the site and the home. BH24-01 through BH24-08 (Figure 1) were collected at the surface and at 2 feet bgs across the property to confirm that no remnant impacts remained from the historical release. Notification of confirmation sampling for this event was submitted to NMOCD before this event and is included in Attachment 6. All samples were submitted to Cardinal Labs in Hobbs, New Mexico, for chemical analysis. The results are presented in Table 3 and all laboratory data reports with chain of custody forms are included in Attachment 7.

Closure Request

Vertex recommends no additional remediation action to address the release at the site. Laboratory analyses of confirmation samples collected at the site show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs. No remnant impacts were identified in all areas impacted by the release. There are no anticipated risks to human, ecological, or hydrological receptors.

The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent water ponding and erosion.

Vertex requests that this incident (nAPP2111646040) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. BTA certifies that all information in this report and the attachments is correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the release.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

Chance Dixon, B.Sc. PROJECT MANAGER Date

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Attachments

Attachment 1. NMOC	CD C-141 Report
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- Attachment 2. Figures
- Attachment 3. Tables
- Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 5. Daily Field Reports with Photographs
- Attachment 6. Required 48-Hour Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports and Chain of Custody Forms

References

Google Inc. (2024). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com

- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from http://geoinfo.nmt.edu
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2023). *Well Log/Meter Information Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Water Rights Reporting System. (2019a). *Water Column/Average Depth to Water Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
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- United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). *Soil Survey, New Mexico*. Retrieved from http://www.wipp.energy.gov/library/Inf ormation_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf
- United States Department of Homeland Security, FEMA Flood Map Service Center. (2010). *Flood Map Number* 35015C1875D. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexic o#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018) *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United State Fish and Wildlife Service. (2019). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/wetlands/data/mapper.html

Limitations

This report has been prepared for the sole benefit of BTA Oil Producers, LLC. 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 BTA Oil Producers, LLC. 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.

ATTACHMENT 1

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2111646040
District RP	
Facility ID	
Application ID	

Received by OCD: 4/17/2024 11:14:03 AM

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297	
Contact Name: Bob Hall	Contact Telephone: 432-682-3753	
Contact email: bhall@btaoil.com	Incident # (assigned by OCD)	
Contact mailing address: 104 S. Pecos St., Midland, TX 79701		

Location of Release Source

Latitude: 32.31103 Longitude: -104.06827

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Siebert #1 Production Facility	Site Type: Production Facility
Date Release Discovered: 4/24/2021	API# (if applicable) Nearest well: Siebert #1 API #30-015-26322

Unit Letter	Section	Township	Range	County
А	15	235	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: Wilbur A. Siebert)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 10 BBL	Volume Recovered (bbls) 5 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Broken Sight Glass.

A broken sight glass on the heater treater allowed approximately 6 barrels of crude oil to be released into the secondary containment of the production facility and released an additional 4 barrels of crude oil by a spray that spread onto adjacent private property and onto a home, several outbuildings, several vehicles, and a fishpond. Five barrels of free oil has been recovered, the top portion of the fishpond was skimmed with a vacuum truck and soap & pressure washing was performed on the home, out buildings and vehicle. (See attached spill calculation spreadsheet.) Received by OCD: 4/17/2024 11:14:03 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 11 of 10
Incident ID	nAPP2111646040
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Received by OCD: 4/17/2024 11:14 Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 12 of 181 nAPP2111646040
I hereby certify that the information g regulations all operators are required t public health or the environment. The failed to adequately investigate and re addition, OCD acceptance of a C-141 and/or regulations. Printed Name: Kelton Beaird	iven above is true and complete to the be to report and/or file certain release notific e acceptance of a C-141 report by the OC mediate contamination that pose a threat report does not relieve the operator of re	est of my knowledge ar cations and perform co CD does not relieve the to groundwater, surfac sponsibility for compli Title: Environmenta	nd understand that pursu rrective actions for rele operator of liability sho ce water, human health iance with any other feo l Manager	aant to OCD rules and ases which may endanger buld their operations have or the environment. In deral, state, or local laws
Signature:]	Date:		
email: KBeaird@btaoil.com		Felephone: <u>432-312</u>	-2203	
OCD Only Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	nAPP2111646040
District RP	
Facility ID	
Application ID	

Closure

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

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

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)

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: Kelton Beaird	Title: Title:
Signature:	_ Date:
email: KBeaird@btaoil.com	Telephone: <u>432-312-2203</u>
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

ATTACHMENT 2

Received by OCD: 4/17/2024 11:14:03 AM





G:1-Projects_US PROJECTS/BTA Oil Producers LLC/2023/002- Siebert #1/Figure 2 Confirmation 2022 Collector Schematic Siebert #1 (23E-03658).mxd

ATTACHMENT 3

Client Name: BTA Oil Producers, LLC Site Name: Siebert #1 Project #: 21E-01340-002 Lab Report: 2104C16, 2105140

Table 3. Initial Characterization Laboratory Results - Depth to Groundwater <50 feet bgs													
	Sample Description	n	F	ield Screenir	ng			Petrol	eum Hydroc	arbons			Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	xtractable Organic mpounds (Petro Flag)	organics (Quantab - High/Low)	Voli eue;	(Total)	line Range nics (GRO)	el Range Organics)	pr Oil Range nics (MRO)	i + DRO)	Petroleum ocarbons (TPH)	ide
			(ppm)	Cor (mqq)	Ē (+/-)	(mg/kg)	(mg/kg)	os eg 9 (mg/kg)	Diese (mg/kg)	Motc Orga	OND (mg/kg)	(bay/gm)	Uploy (mg/kg)
BH21-01	0	4/27/2021	-	-	19,319	0.11	70.91	820	6700	3000	7520	10520	18,000
BH21-01	0.5	4/27/2021	-	11,540	15,458	-	-	-	-	-	-	-	-
BH21-01	1	4/27/2021	-	-	18,628	-	-	-	-	-	-	-	-
BH21-01	2	4/27/2021	-	-	1,751	ND	ND	ND	9.8	ND	9.8	9.8	630
BH21-01	3	4/27/2021	-	-	1,267			-	-	-	-	-	-
BH21-01	4	4/27/2021	-	113	492	ND	ND	ND	31	ND	31	31	130
BH21-02	0	4/27/2021	-	-	2,679	ND	96.1	1500	13,000	5,200	14,500	19,700	1,100
BH21-02	0.5	4/27/2021	-	-	1,106	-	-	-	-	-	-	-	-
BH21-02	1	4/27/2021	-	-	471	ND	0.11	4.7	390	250	394.7	645	160
BH21-02	2	4/27/2021	-	207	292	-	-	-	-	-	-	-	-
BH21-02	3	4/27/2021	-	102	484	ND	ND	ND	33	ND	33	33	180
BH21-02	4	4/27/2021	-	-	430	-	-	-	-	-	-	-	-
BH21-03	0	4/27/2021	-	750	ND 270	-	-	-	-	-	-	-	-
BH21-03	0.5	4/2//2021	-	-	278	-	-	-	-	-	-	-	-
BH21-04	0-0.5	4/27/2021	-	122	215	-	-	-	-	-	-	-	-
BH21-05	0-0.5	4/27/2021	-	71	129 ND	- ND	- 0.12	ND	- 13	- ND	- 13	- 13	ND
BH21-00 BH21-07	0-0:5	4/27/2021	_	5 080	ND	-	-	n.	-	-	-	-	-
BH21-07 BH21-07	0.5	4/27/2021	-	763	ND	-	-		-	-	-	-	-
BH21-07	1	4/27/2021	-	227	350	ND	ND	ND	33	54	33	87	290
BH21-08	0-0.5	4/27/2021	-	95	14.553	ND	ND	ND	ND	ND	ND	ND	11,000
BH21-09	0-0.5	4/27/2021	-	78	14,011	-	-	-	-	-	-	-	-
BH21-10	0	4/27/2021	-		28,628	-	-	-	-	-	-	-	-
BH21-10	0.5	4/27/2021	-	137	8,797	-	-	-	-	-	-	-	-
BH21-10	1	4/27/2021	-	268	6,850	-	-	-	-	-	-	-	-
BH21-11	0-0.5	4/27/2021	-	52	270	ND	ND	ND	ND	ND	ND	ND	170
BH21-12	0-0.5	4/27/2021	-	118	158	-	-	-	0.4	ND	0.4	0.4	-
BH21-13	0-0.5	4/2//2021	-	100	3,593	ND	0.16 ND	ND	8.4 ND	ND	8.4 ND	8.4 ND	2,300
BH21-14 BH21-15	0-0.5	4/27/2021		- 15	200	-	-	-	-	-	-	-	-
BH21-16	0-0.5	4/27/2021	-	-	15.344	-	-	-	-	-	-	-	-
BH21-17	1	4/27/2021	-	-	337	-	-	-	-	-	-	-	-
BH21-17	2	4/27/2021	-	208	-	-	-	-	-	-	-	-	-
BH21-18	0-0.5	4/27/2021	-	31	-	ND	ND	ND	ND	ND	ND	ND	ND
BH21-19	0	5/3/2021	-	119	210	ND	ND	ND	ND	ND	ND	ND	ND
BH21-19 BH21-20	0.5	5/3/2021	-	54 01	130	- ND	- ND	- ND	ND	ND	ND	- ND	- ND
BH21-20	0.5	5/3/2021	-	39	110	-	-	-	-	-	-	-	-
BH24-01	0	3/26/2024	-	2	407	ND	ND	ND	ND	ND	ND	ND	192
BH24-01	1	3/26/2024	-	5	562	ND	ND	ND	ND	ND	ND	ND	96
BH24-02	0	3/26/2024	-	91	381	ND	ND	ND	ND	ND	ND	ND	32
BH24-02	1	3/26/2024	-	37	482	ND	ND	ND	ND	ND	ND	ND	256
BH24-03	0	3/26/2024	-	19	207	ND	ND	ND	ND	ND	ND	ND	352
BH24-03		3/26/2024	-	0 10	387	ND	ND	ND	ND	ND	ND	ND	37
BH24-04	1	3/26/2024	-	9	367	ND	ND	ND	ND	ND	ND	ND	32
BH24-05	0	3/26/2024	-	8	335	ND	ND	ND	ND	ND	ND	ND	32
BH24-05	1	3/26/2024	-	18	417	ND	ND	ND	ND	ND	ND	ND	48
BH24-06	0	3/26/2024	-	17	372	ND	ND	ND	ND	ND	ND	ND	320
BH24-06	1	3/26/2024	-	11	410	ND	ND	ND	ND	ND	ND	ND	160
BH24-07	U 1	3/26/2024	-	1 c	382								90 176
BH24-07 BH24-08	0	3/26/2024	-	2	381	ND	ND	ND	ND	ND	ND	ND	96
BH24-08	1	3/26/2024	-	9	482	ND	ND	ND	ND	ND	ND	ND	176

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

- Denotes no standard/not analyzed



.

	Sample Description					Pe	etroleum H	lydrocarbo	ons				Inorganic
Sample ID	Depth (ft)	Date	menzene (mg/kg)	au Toluene (m8/k8)	Ethylbenzene (ms//sm)	(mage) (mag	(m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	ය) ශී කි කි (සි Casoline Range Organics (GRO)) (略) (部) (語) Diesel Range Organics (DRO)) (略) (約) (約) (約) (約) (約)	((mg/kg)	(a) Total Petroleum Hydrocarbons (TPH)	() (g) (a) (a) (b)
	NMOCD - NMAC <5	50 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	-	100	600
Criteria	NMOCD - NMAC 51-	100 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	1000	2500	10000
	NMOCD - NMAC >1	00 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	1000	2500	20000
Boreholes	1	i i i i i i i i i i i i i i i i i i i	i i	1	1	1	1	1	1	1	1	1	
BS21-01	4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS21-02	4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	78
BS21-03	4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
BS23-04	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
BS23-05	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
BS23-06	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48
BS23-07	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-08	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
BS23-09	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-10	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-11	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-12	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-13	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-14	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-15	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-16	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-17	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-18	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
BS23-19	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
BS23-20	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
BS23-21	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
D323-22	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22
D323-23	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
D323-24	1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
B\$23-26	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
BS23-27	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
BS23-28	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
BS23-29	0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
WS21-01	0-4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-02	0-4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66
WS21-03	0-4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-04	0-4	2021-05-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-05	0-0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	128
WS23-06	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48
WS23-07	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
WS23-08	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16
WS23-09	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
WS23-10	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
WS23-11	0-1.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48
WS23-12	0-0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS23-13	0-0.5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
WS23-14	0-0 5	2023-08-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	112
	2 0.0	00 00											

NMAC - New Mexico Administrative Code (Title 19, Chapter 15, Part 29; 2022)

ND - Not Detected at the Reporting Limit

- Denotes no standard/not analyzed

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ATTACHMENT 4

NMOSE C-04451 0.5-Mile Radius



9/6/2023, 9:28:10 AM GIS WATERS PODs

- Active
- Pending

Water Right Regulations

- Negative Easement Area
- Conveyances
- Capped Ditch
 OSE District Boundary SiteBoundaries

1:9,028



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New Mexico Office of the State Engineer Point of Diversion Summary

			(quar	ters are 1	=NW 2=	=NE 3:	=SW 4=SE)			
			(qua	rters are	smalles	t to lar	gest)	(NAD83 UT	M in meters)	
Well Tag	PC	DD Number	Q64	Q16 Q4	Sec	Tws	Rng	Х	Y	_
20C1F	С	04451 POD1	4	4 4	10	23S	28E	587833	3575521	9
Driller Licens	se:	1400	Driller C	ompan	y: SC	DUTH	IEAST DI	RILLING (COMPANY	
Driller Name:		HAMMOND, MA	RKDALEN	AIGENE	R					
Drill Start Da	te:	09/28/2020	Drill Fini	sh Date	e :	10/	01/2020	Plug	Date:	
Log File Date):	10/14/2020	PCW Rc	v Date:				Sour	ce:	Shallow
Pump Type:			Pipe Dis	charge	Size:			Estin	nated Yiel	d: 30 GPM
Casing Size:		5.00	Depth W	ell:		120) feet	Dept	h Water:	57 feet
w	ate	r Bearing Stratifi	cations:	Тор	Bott	om	Descript	ion		
				57		75	Limeston	e/Dolomit	e/Chalk	
				87		100	Limeston	e/Dolomit	e/Chalk	
		Casing Perfe	orations:	Тор	Bott	om				
				60		120				

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U.S. Fish and Wildlife Service National Wetlands Inventory

Flowing Water 2,390 ft.



April 27, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine

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

Received by OCD: 117/2024 11.14.02 414 U.S. Fish and Wildlife Service

National Wetlands Inventory

Playa Lake 6,377 ft.



April 27, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine

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

Released to Imaging: 5/13/2024 4:04:13 PM

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





New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

	(a are the are			and no longer serves th	his file, (quarters are 1=NW 2=NE 3=SW	4=SE)
	(acre it per	annun)			(quarters are smallest to largest)	(NAD63 OTWITH Helers)
WR File Nbr	basin Use Diversi	ion Owner	County POD Number	Tag Code Grant	ччч Source 6416.4 Sec Tws Rng	X Y Distance
C 00235	C STK	3 LEE S. WILLIAMS	ED <u>C 00235</u>		Shallow 2 2 15 23S 28E	587676 3575280* 😜 53
<u>C 04451</u>	C DOL	3 ALFRED CARRASCO	ED <u>C 04451 POD1</u>	20C1F	Shallow 4 4 4 10 23S 28E	587833 3575521 🤤 235
<u>C 04268</u>	C DOM	1 JOSE P VALENCIA	ED <u>C 04268</u>	20772	1 3 1 14 23S 28E	587894 3575069 🤤 315
<u>C 00616</u>	CUB IRR	0 LEE & WELMA VOIGT	ED <u>C 00616</u>		Shallow 1 3 1 14 23S 28E	587982 3574978* 😜 441
<u>C 00321</u>	C DOM	0 W.J. BAILEY	ED <u>C 00321</u>		4 2 15 23S 28E	587679 3574874* 🤤 449
<u>C 02503</u>	C DOM	3 JIMMY G TARVIN SR	ED <u>C 02503</u>		Shallow 4 2 15 23S 28E	587679 3574874* 🤤 449
<u>C 00485</u>	CUB IRR	0 G.W. CRISP	ED <u>C 00485</u>		1 1 2 15 23S 28E	587170 3575375* 🤤 539
<u>C 00269</u>	C IRR	3 JOHNNY GIOVENGO JR.	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3574773* 🌍 554
<u>C 01352</u>	C DOM	3 D H MAGBY	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3574773* 🌍 554
			ED <u>C 01352</u>		4 4 2 15 23S 28E	587778 3574773* 😑 554
<u>C 01364</u>	C DOM	3 DANIEL H MAGBY	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3574773* 😑 554
<u>C 02810</u>	C DOM	3 JOHN REID	ED <u>C 02810</u>		4 3 2 15 23S 28E	587373 3574769* 😑 646
<u>C 02926</u>	C STK	3 JOHNNY L REID	ED <u>C 02926</u>		4 3 2 15 23S 28E	587373 3574769* 😑 646
<u>C 03469</u>	CUB POL	0 BTA OIL PRODUCERS, LLC	ED <u>C 03469 POD2</u>		3 4 3 11 23S 28E	588382 3575506 🌍 699
			ED <u>C 03469 POD1</u>		Shallow 3 4 3 11 23S 28E	588373 3575538 🌍 700
			ED <u>C 03469 POD3</u>		3 4 3 11 23S 28E	588381 3575538 🌍 707
<u>C 00315</u>	CUB IRR	0 JOSE AREVALO	ED <u>C 00315</u>		Shallow 3 1 3 11 23S 28E	587973 3575995* 😑 722
<u>C 01328</u>	CUB IRR	0 URQUIDEZ VICENTE L	ED <u>C 01328</u>		3 3 2 15 23S 28E	587173 3574769* 🤤 769

*UTM location was derived from PLSS - see Help

Received by OCD: 4/17/2024 11:14:03 AM

		(001	coft por oppum)				and no longer serves thi	s file, (qua	rters are	1=NW 2	=NE 3=SW	4=SE)	UTM in motora)	
	Sub	(aci	e it per annum)			Well	C=the file is closed)	(qua	rters are	smalles	to largest)	(INAD65	O TIM III IIIeters)	
WR File Nbr	basin	Use	Diversion Owner	County	POD Number	Tag	Code Grant	Source	6416 4	Sec Tv	/s Rng	х	Y	Distance
C 02928	С	PUB	0 NEW MEXICO STATE HIGHWAY & T.D	ED	<u>C 02928</u>				2 1	14 23	S 28E	588486	3575290* 🌍	779
<u>C 02189</u>	С	PRO	0 RB OPERATING COMPANY	ED	<u>C 02189</u>			Shallow	113	14 23	S 28E	587985	3574572* 🌍	800
C 01450	С	PUB	0 GARDNER BRIDGE CO.	ED	<u>C 01450</u>				221	14 23	S 28E	588585	3575389* 🌍	880
C 00608	С	DOM	0 JOSE AREVALO	ED	<u>C 00608</u>				331	11 23	S 28E	587970	3576401* 🌍	1109
C 00128	С	DOL	3 YLARIO URQUIDEZ	ED	<u>C 00128</u>			Shallow	244	15 23	S 28E	587783	3574162* 🌍	1163
<u>C 01446</u>	С	PUB	0 NM STATE HWY DEPT.	ED	<u>C 01446</u>					14 23	S 28E	588692	3574670* 🌍	1181
<u>C 03460</u>	CUB	EXP	0 HUNGRY HORSE, LLC	ED	C 03460 POD1			Shallow	312	14 23	S 28E	588857	3575004 🌍	1193
C 00501	CUB	IRR	93.51 EQUITABLE LIFE ASSURANCE SOCIETY	ED	<u>C 00501</u>				123	15 23	S 28E	586772	3574559* 🌍	1207
C 00501 C	CUB	IRR	2.67 CARRASCO CANDELARIO JR	ED	<u>C 00501</u>				123	15 23	S 28E	586772	3574559* 🌍	1207
<u>C 00501 CA</u>	CUB	IRR	111 NORWEST BANK NEW MEXICO AS MORTGAGEE	ED	<u>C 00501</u>				123	15 23	S 28E	586772	3574559* 🌍	1207
C 01257	CUB	EXP	0 U.S. BORAX & CHEM. CORP.	ED	<u>C 01257</u>				412	14 23	S 28E	588990	3575194* 🌍	1289
C 00501	CUB	IRR	93.51 EQUITABLE LIFE ASSURANCE SOCIETY	ED	<u>C 00501 A-S</u>			Shallow	323	15 23	S 28E	586772	3574359* 🌍	1343
				ED	<u>C 00501 AS</u>			Shallow	323	15 23	S 28E	586766	3574353 🌍	1350
<u>C 00501 A</u>	CUB	IRR	443.64 JACKIE D MCDONALD	ED	<u>C 00501 AS</u>			Shallow	323	15 23	S 28E	586766	3574353 🌍	1350
C 00501 D	CUB	IRR	296.46 LIONEL ONSUREZ	ED	<u>C 00501 AS</u>			Shallow	323	15 23	S 28E	586766	3574353 🌍	1350
C 00326	CUB	IRR	221.45 HENRY E MCDONALD	ED	<u>C 00326</u>			Shallow	333	10 23	S 28E	586358	3575572* 🌍	1371
SP 01955	CUB	IRR	150.8 U.S. BANK NATIONAL ASSO. INTREPID MINING NM LLC	ED	SP 01955					11 23	S 28E	588680	3576294* 🌍	1374
SP 00302	CUB	IND	4639.5 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED	SP 00302				14	11 23	S 28E	588886	3576107* 🌍	1415
SP 01942	CUB	IND	10868 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED	SP 01942				14	11 23	S 28E	588886	3576107* 🌍	1415
SP 02045	CUB	IND	18100 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED	SP 02045				14	11 23	S 28E	588886	3576107* 🌍	1415
C 04216	CUB	MON	0 ROCKCLIFF OPERATING NM	ED	C 04216 POD4	NA		Shallow	241	11 23	S 28E	588499	3576513 🌍	1429
C 00098	CUB	IRR	405.39 JAMES B KENNEY	ED	<u>C 00109</u>	NA		Shallow	133	04 23	S 27E	588485	3576531 🌍	1437

(R=POD has been replaced

*UTM location was derived from PLSS - see Help

Received by OCD: 4/17/2024 11:14:03 AM

	(005	oft por oppum)				and no longer serves t	his file, (qua	arters are	∋ 1=N\	W 2=N	IE 3=SW	4=SE)	LITM in motore)	
	(acro				Woll	C=the file is closed)	(qua	arters are	e smai	liest to	argest)	(INAD65	O HVI III IIIeters)	
WR File Nbr	basin Use I	Diversion Owner	County	POD Number	Tag	Code Grant	Source	4 4 4 6416 4	Sec	Tws	Rna	x	Y	Distance
<u>C 00109</u>	CUB IRR	405.39 MONTIE BUNCH	ED	<u>C 00109</u>	NA		Shallow	133	04	23S	27E	588485	3576531 🌍	1437
<u>C 04219</u>	CUB PRO	0 ATKINS ENGR ASSOC INC	ED	<u>C 00109</u>	NA		Shallow	133	04	23S	27E	588485	3576531 🌍	1437
<u>C 04216</u>	CUB MON	0 ROCKCLIFF OPERATING NM LLC	ED	C 04216 POD1	NA		Shallow	241	11	23S	28E	588488	3576534 🌍	1441
			ED	C 04216 POD2			Shallow	141	11	23S	28E	588464	3576555 🌍	1447
<u>C 00072</u>	CUB IRR	552 J L NYMEYER	ED	<u>C 00072</u>			Shallow	331	15	23S	28E	586364	3574760* 🌍	1456
<u>C 00501 A</u>	CUB IRR	443.64 JACKIE D MCDONALD	ED	<u>C 00501 A</u>			Shallow	334	15	23S	28E	587179	3573958* 🌍	1463
<u>C 00501 B</u>	CUB IRR	194.49 UFFIE LAND CO	ED	<u>C 00501 A</u>			Shallow	334	15	23S	28E	587179	3573958* 🌍	1463
<u>C 04216</u>	CUB MON	0 ROCKCLIFF OPERATING NM LLC	ED	C 04216 POD3	NA		Shallow	141	11	23S	28E	588501	3576556 🌍	1466
<u>C 01256</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED	<u>C 01256</u>				322	14	23S	28E	589196	3575199* 🌍	1494
<u>C 00512</u>	CUB IRR	322.8 ANTONIO C. & GLORIA G. ONSUREZ	ED	<u>C 00512</u>			Shallow	411	11	23S	28E	588188	3576775 🌍	1529
<u>C 03536</u>	C PRO	0 GLENN'S WATER WELL SERVICE	ED	<u>C 00512</u>			Shallow	411	11	23S	28E	588188	3576775 🌍	1529
<u>C 00512</u>	CUB IRR	322.8 ANTONIO C. & GLORIA G. ONSUREZ	ED	<u>C 00512 S</u>			Shallow	411	11	23S	28E	588167	3576806* 🌍	1552
<u>C 04252</u>	CUB MON	0 CHEVRON NORTH AM EXPL & PROD	ED	<u>C 04252 POD1</u>	NA			443	14	23S	28E	588513	3573957 🤤	1585

(R=POD has been replaced

Record Count: 53

UTMNAD83 Radius Search (in meters):

Easting (X): 587707

Northing (Y): 3575322.99

Radius: 1610

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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Received by C	OCD: 4/17/2024	4 11:14:03 A Ne	w Mex	ico Office oi t er Right	f the Sta : Sum	ate I ma	Engineer Ary
D	WR File Nun	n ber: C 044	451	Subbasin: C	Cross Ref	erence): -
get image list	Primary Pur	pose: DOL	72-12-1 D	OMESTIC AND LIVES	TOCK WATER	ING	
<u></u>	Primary Stat	us: PMT	PERMIT				
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images 6	674777 72121	2020-07-01	PMT LOO	G C 04451 POD1	Т		3
Current Pe	oints of Diver	sion	000	(NAD83 UT	ΓM in meters)		
POD C 044	Number 51 POD1	Well Tag S 20C1F S	Source 6416 4 Shallow 4 4 4	Sec Tws Rng 1 1 0 23S 28E 58783	x Y 3 3575521 🌍	Other	Location Desc

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Released to Imaging: 5/13/2024 4:04:13 PM

National Wetlands Inventory

Wetland 2,420 ft.



April 27, 2021 This map is for general responsible base data shown on this be used in accordance w. Wetlands Wetlands Freshwater Emergent Wetland Lake Lake Wetlands base data shown on this be used in accordance w. Wetlands Mapper web site Estuarine and Marine Deepwater Freshwater Forested/Shrub Wetland Other Estuarine and Marine Wetland Freshwater Pond Riverine

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

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

Active Mines in New Mexico





(Siebert #1)

tial



Received by OCD: 4/17/2024 11:14:03 AM National Flood Hazard Layer FIRMette



Legend

Page 34 of 181



Releasea to Imaging: 5/13/2024 494:13 PM 1,500

1:6,000 2.000

regulatory purposes.

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



USDA United States Department of Agriculture

> Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	
Soil Map	9
Legend	10
Map Unit Legend	11
Map Unit Descriptions	11
Eddy Area, New Mexico	13
Uo—Upton gravelly loam, 0 to 9 percent slopes	13
Up—Upton soils, 0 to 1 percent slopes	14
References	16

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic classes has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

.

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Received by OCD: 4/17/2024 11:14:03 AM



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Custom Soil Resource Report

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil AreaStony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Lines Soil Map Unit Points Special Point Features Blowout	 Very Stony Spot Wet Spot Other Special Line Features Water Features Streams and Canals 	Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.
Image: Severely Eroded SpotImage: Spot<	Streams and Canals Fransportation Image: A construction Image: A	 Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020
yw		The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Syn	nbol Map Unit Name	Acres in AOI	Percent of AOI
Uo	Upton gravelly loam, 0 to 9 percent slopes	1.5	78.5%
Up	Upton soils, 0 to 1 percent slopes	0.4	21.5%
Totals for Area of In	terest	1.9	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

Uo-Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w67 Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 15 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent *Minor components:* 4 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Upton

Setting

Landform: Fans, ridges Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

- H2 9 to 13 inches: gravelly loam
- H3 13 to 21 inches: cemented
- H4 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Atoka

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Reagan

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Upton

Percent of map unit: 1 percent Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Up—Upton soils, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w68 Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 14 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 98 percent *Minor components:* 2 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Upton

Setting

Landform: Fans, ridges Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 8 inches: gravelly loam

- H2 8 to 18 inches: gravelly loam
- H3 18 to 40 inches: cemented
- H4 40 to 60 inches: very gravelly loam

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent *Ecological site:* R042XC025NM - Shallow *Hydric soil rating:* No

Atoka

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Sibert #1



4/29/2021, 10:43:41 AM

Faults

- Fault, Exposed
- -- Fault, Intermittent
- Fault, Concealed
- Shere Zone



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NMBGMR

ATTACHMENT 5



Client:	BTA Oil Producers LLC	Inspection Date:	8/22/2023
Site Location Name:	Siebert #001	Report Run Date:	8/22/2023 10:44 PM
Client Contact Name:	Bob Hall	API #:	30-015-26322
Client Contact Phone #:	432-312-2203	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	limes
Arrived at Site	8/22/2023 3:40 PM		
Departed Site	8/22/2023 4:03 PM		
Field Notes			

15:57 Arrived on site for pictures and measurements of excavation depths.

15:58 Finished the tasks.

Next Steps & Recommendations

1





Site Photos Viewing Direction: South Viewing Direction: East Excavation facing south East side of excavation; deeper side Viewing Direction: Southwest Viewing Direction: West Excavation facing southwest Excavation facing west

VERTEX









Daily Site Visit Signature

Inspector: Angela Mohle1

Signature: AM

Run on 8/22/2023 10:44 PM UTC

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Client	BTA Oil Producers LLC	Inspection Date	3/26/2024
Site Location Name	Siebert #001	API #	30-015-26322
Client Contact Name	Kelton Baird	Project Owner	
Client Contact Phone #	432-312-2203	Project Manager	
Project Reference #			
Unique Project ID			
		Summary of Times	
Arrived at Site	3/26/2024 8:51 AM		
Departed Site	3/26/2024 11:30 AM		
		Field Notes	
8:52 Arrived on site	to collect eight boreholes at surface	and 1' bgs between the locat	tion and the house adjacent to the property. The

8:52 Arrived on site to collect eight boreholes at surface and 1' bgs between the location and the house adjacent to the property. The owner of the house has approved the sampling and I am cleared to proceed.

10:54 Collected BH24-01 through BH24-08 at 0' and 1' bgs. All samples field screened below NMOCD's strictest closure criteria. I was the only one on site during the sampling activities.

Next Steps & Recommendations

1 Send all samples to lab for analysis.



Site Photos





Page 59 of 181





Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

Signature

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ATTACHMENT 6

Monica Peppin

From:	Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com>
Sent:	Monday, May 3, 2021 4:57 PM
То:	Enviro, OCD, EMNRD
Cc:	John Hurt; BHall@btaoil.com; Monica Peppin
Subject:	48 HR Notification of Confirmation Sampling Siebert 1 nAPP2111646040

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampled to be conducted at Siebert #1 Production Facility for the following release:

nAPP2111646040 DOR: April 24, 2021

On Wednesday, May 5, 2021 and possibly into Thursday May 6, 2021 at approximately 8:00 AM, Monica Peppin will be onsite to conduct confirmatory sampling after excavation has been completed. She can be reached at 575-361-9880, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you, Monica

Monica Peppin

Project Manager

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880 F

www.vertex.ca

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nAPP2111646040 Confirmatory Sampling Notice Siebert #1

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov> Cc: KBeaird@btaoil.com Wed, Jul 26, 2023 at 8:27 AM

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following release:

nAPP2111646040 DOR: 04/24/2021 Site Name: Siebert #1 Production Facility

This work will be completed on behalf of BTA Oil Producers, LLC

On Monday, July 31, 2023 at approximately 8:00 a.m. continuing through Friday August 4, 2023 at 5:00 p.m., Monica Peppin will be on site to conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

Monica Peppin, A.S.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880 F

www.vertex.ca

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Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> To: Dhugal Hanton <vertexresourcegroupusa@gmail.com> Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Wed, Jul 26, 2023 at 9:32 AM

Hi Monica,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Administrative Permitting Program

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

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

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com> Sent: Wednesday, July 26, 2023 8:27 AM To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Cc: KBeaird@btaoil.com Subject: [EXTERNAL] nAPP2111646040 Confirmatory Sampling Notice Siebert #1

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

[Quoted text hidden]

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

Page 65cof 181 QUESTIONS

Action 325813

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325813
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2111646040		
Incident Name	NAPP2111646040 SIEBERT #1 PRODUCTION FACILITY @ 30-015-26322		
Incident Type	Oil Release		
Incident Status	Initial C-141 Received		
Incident Well	[30-015-26322] SIEBERT #001		

Location of Release Source

Site Name	SIEBERT #1 PRODUCTION FACILITY
Date Release Discovered	04/24/2021
Surface Owner	Private

Sampling Event General Information

Please	answer	all t	he c	questions	in	this	group.

Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,200
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Chance Dixon with Vertex will be on site to collect confirmation samples. He can be reached at 575-988-1472. If you need directions to the site or any other information, do not hesitate to contact him.
Please provide any information necessary for navigation to sampling site	32.311483, -104.067779

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

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:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325813
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
btavertex	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/22/2024

Page 66cof 181

Action 325813

ATTACHMENT 7



May 03, 2021

Monica Peppin Vertex Resource Group Ltd. 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

RE: Siebert 1

OrderNo.: 2104C16

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/29/2021 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 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

Lab ID: 2104C16-001 Client Sample ID: BH21-01 0' Collection Date: 4/27/2021 7:45:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS					Analyst: SB
Diesel Range Organics (DRO)	6700	93		mg/Kg	10	4/29/2021 10:35:04 AM
Motor Oil Range Organics (MRO)	3000	470		mg/Kg	10	4/29/2021 10:35:04 AM
Surr: DNOP	0	70-130	S	%Rec	10	4/29/2021 10:35:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	820	21		mg/Kg	5	4/29/2021 9:46:08 AM
Surr: BFB	825	70-130	S	%Rec	5	4/29/2021 9:46:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.11	0.11		mg/Kg	5	4/29/2021 9:46:08 AM
Toluene	6.8	0.21		mg/Kg	5	4/29/2021 9:46:08 AM
Ethylbenzene	10	0.21		mg/Kg	5	4/29/2021 9:46:08 AM
Xylenes, Total	54	0.43		mg/Kg	5	4/29/2021 9:46:08 AM
Surr: 4-Bromofluorobenzene	187	70-130	S	%Rec	5	4/29/2021 9:46:08 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	18000	1500		mg/Kg	500	4/29/2021 2:13:53 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
- 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 16

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

2104C16-002

Client Sample ID: BH21-01 2' Collection Date: 4/27/2021 8:00:00 AM

Matrix: MEOH (SOIL)

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	9.8	8.6	mg/Kg	1	4/29/2021 10:32:49 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/29/2021 10:32:49 AM
Surr: DNOP	101	70-130	%Rec	1	4/29/2021 10:32:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	4/29/2021 3:15:38 PM
Surr: BFB	101	70-130	%Rec	1	4/29/2021 3:15:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	4/29/2021 3:15:38 PM
Toluene	ND	0.034	mg/Kg	1	4/29/2021 3:15:38 PM
Ethylbenzene	ND	0.034	mg/Kg	1	4/29/2021 3:15:38 PM
Xylenes, Total	ND	0.069	mg/Kg	1	4/29/2021 3:15:38 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	4/29/2021 3:15:38 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	630	60	mg/Kg	20	4/29/2021 10:55:21 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 16

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

Lab ID: 2104C16-003 Client Sample ID: BH21-01 4' Collection Date: 4/27/2021 8:10:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	31	9.0	mg/Kg	1	4/29/2021 10:42:07 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/29/2021 10:42:07 AM
Surr: DNOP	108	70-130	%Rec	1	4/29/2021 10:42:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/29/2021 10:33:34 AM
Surr: BFB	98.8	70-130	%Rec	1	4/29/2021 10:33:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/29/2021 10:33:34 AM
Toluene	ND	0.046	mg/Kg	1	4/29/2021 10:33:34 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/29/2021 10:33:34 AM
Xylenes, Total	ND	0.093	mg/Kg	1	4/29/2021 10:33:34 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	4/29/2021 10:33:34 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	130	60	mg/Kg	20	4/29/2021 11:07:46 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 16

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

2104C16-004

Client Sample ID: BH21-02 0' Collection Date: 4/27/2021 8:20:00 AM

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS					Analyst: SB
Diesel Range Organics (DRO)	13000	860		mg/Kg	100	4/29/2021 3:49:36 PM
Motor Oil Range Organics (MRO)	5200	4300		mg/Kg	100	4/29/2021 3:49:36 PM
Surr: DNOP	0	70-130	S	%Rec	100	4/29/2021 3:49:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1500	24		mg/Kg	5	4/29/2021 10:57:14 AM
Surr: BFB	1420	70-130	S	%Rec	5	4/29/2021 10:57:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/29/2021 10:57:14 AM
Toluene	8.1	0.24		mg/Kg	5	4/29/2021 10:57:14 AM
Ethylbenzene	16	0.24		mg/Kg	5	4/29/2021 10:57:14 AM
Xylenes, Total	72	4.9		mg/Kg	50	4/29/2021 2:52:15 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	50	4/29/2021 2:52:15 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	1100	61		mg/Kg	20	4/29/2021 11:20:10 AM

Matrix: MEOH (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 4 of 16
Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.	
Project:	Siebert 1	

2104C16-005

Client Sample ID: BH21-02 1' Collection Date: 4/27/2021 8:30:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	390	8.5		mg/Kg	1	4/29/2021 12:07:09 PM
Motor Oil Range Organics (MRO)	250	43		mg/Kg	1	4/29/2021 12:07:09 PM
Surr: DNOP	103	70-130		%Rec	1	4/29/2021 12:07:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	4.7	4.0		mg/Kg	1	4/29/2021 3:38:57 PM
Surr: BFB	135	70-130	S	%Rec	1	4/29/2021 3:38:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	4/29/2021 3:38:57 PM
Toluene	ND	0.040		mg/Kg	1	4/29/2021 3:38:57 PM
Ethylbenzene	ND	0.040		mg/Kg	1	4/29/2021 3:38:57 PM
Xylenes, Total	0.11	0.080		mg/Kg	1	4/29/2021 3:38:57 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	4/29/2021 3:38:57 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	160	60		mg/Kg	20	4/29/2021 11:32:35 AM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. 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 16

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

2104C16-006

Client Sample ID: BH21-02 3' Collection Date: 4/27/2021 8:40:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	33	9.2	mg/Kg	1	4/29/2021 10:51:27 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/29/2021 10:51:27 AM
Surr: DNOP	105	70-130	%Rec	1	4/29/2021 10:51:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/29/2021 11:44:06 AM
Surr: BFB	100	70-130	%Rec	1	4/29/2021 11:44:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2021 11:44:06 AM
Toluene	ND	0.048	mg/Kg	1	4/29/2021 11:44:06 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/29/2021 11:44:06 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/29/2021 11:44:06 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	4/29/2021 11:44:06 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	180	60	mg/Kg	20	4/29/2021 11:44:59 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 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd
Project:	Siebert 1

Lab ID: 2104C16-007 Client Sample ID: BH21-06 0-0.5' Collection Date: 4/27/2021 9:20:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	13	8.8	mg/Kg	1	4/29/2021 11:00:48 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/29/2021 11:00:48 AM
Surr: DNOP	100	70-130	%Rec	1	4/29/2021 11:00:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/29/2021 12:07:38 PM
Surr: BFB	108	70-130	%Rec	1	4/29/2021 12:07:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	4/29/2021 12:07:38 PM
Toluene	ND	0.043	mg/Kg	1	4/29/2021 12:07:38 PM
Ethylbenzene	ND	0.043	mg/Kg	1	4/29/2021 12:07:38 PM
Xylenes, Total	0.12	0.086	mg/Kg	1	4/29/2021 12:07:38 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	4/29/2021 12:07:38 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/29/2021 11:57:23 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
- 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 16

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

2104C16-008

Client Sample ID: BH21-08 0-0.5' Collection Date: 4/27/2021 9:35:00 AM Received Date: 4/29/2021 7:35:00 AM

Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	4/29/2021 11:10:12 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/29/2021 11:10:12 AM
Surr: DNOP	105	70-130	%Rec	1	4/29/2021 11:10:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/29/2021 12:31:23 PM
Surr: BFB	97.0	70-130	%Rec	1	4/29/2021 12:31:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	4/29/2021 12:31:23 PM
Toluene	ND	0.039	mg/Kg	1	4/29/2021 12:31:23 PM
Ethylbenzene	ND	0.039	mg/Kg	1	4/29/2021 12:31:23 PM
Xylenes, Total	ND	0.077	mg/Kg	1	4/29/2021 12:31:23 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/29/2021 12:31:23 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	11000	600	mg/Kg	200	4/29/2021 2:26:17 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

Page 8 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

Lab ID: 2104C16-009 Client Sample ID: BH21-11 0-0.5' Collection Date: 4/27/2021 9:55:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 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	9.5	mg/Kg	1	4/29/2021 11:19:37 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/29/2021 11:19:37 AM
Surr: DNOP	100	70-130	%Rec	1	4/29/2021 11:19:37 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/29/2021 12:55:06 PM
Surr: BFB	102	70-130	%Rec	1	4/29/2021 12:55:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	4/29/2021 12:55:06 PM
Toluene	ND	0.041	mg/Kg	1	4/29/2021 12:55:06 PM
Ethylbenzene	ND	0.041	mg/Kg	1	4/29/2021 12:55:06 PM
Xylenes, Total	ND	0.082	mg/Kg	1	4/29/2021 12:55:06 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/29/2021 12:55:06 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	170	61	mg/Kg	20	4/29/2021 12:22:12 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

Page 9 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd
Project:	Siebert 1

Lab ID: 2104C16-010 Client Sample ID: BH21-13 0-0.5' Collection Date: 4/27/2021 10:30:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	8.4	7.4	mg/Kg	1	4/29/2021 11:29:04 AM
Motor Oil Range Organics (MRO)	ND	37	mg/Kg	1	4/29/2021 11:29:04 AM
Surr: DNOP	102	70-130	%Rec	1	4/29/2021 11:29:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/29/2021 1:18:36 PM
Surr: BFB	112	70-130	%Rec	1	4/29/2021 1:18:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2021 1:18:36 PM
Toluene	ND	0.048	mg/Kg	1	4/29/2021 1:18:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/29/2021 1:18:36 PM
Xylenes, Total	0.16	0.095	mg/Kg	1	4/29/2021 1:18:36 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	4/29/2021 1:18:36 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2300	150	mg/Kg	50	4/29/2021 2:38:42 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 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 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd.
Project:	Siebert 1

Lab ID: 2104C16-011 Client Sample ID: BH21-14 0-0.5' Collection Date: 4/27/2021 10:35:00 AM

Matrix: MEOH (SOIL) Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	4/29/2021 11:38:33 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	4/29/2021 11:38:33 AM
Surr: DNOP	105	70-130	%Rec	1	4/29/2021 11:38:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/29/2021 2:05:28 PM
Surr: BFB	97.8	70-130	%Rec	1	4/29/2021 2:05:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	4/29/2021 2:05:28 PM
Toluene	ND	0.038	mg/Kg	1	4/29/2021 2:05:28 PM
Ethylbenzene	ND	0.038	mg/Kg	1	4/29/2021 2:05:28 PM
Xylenes, Total	ND	0.075	mg/Kg	1	4/29/2021 2:05:28 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/29/2021 2:05:28 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	78	61	mg/Kg	20	4/29/2021 1:11:50 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

Page 11 of 16

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104C16

Date Reported: 5/3/2021

CLIENT:	Vertex Resource Group Ltd
Project:	Siebert 1

2104C16-012

Client Sample ID: BH21-07 1' Collection Date: 4/27/2021 11:30:00 AM

Matrix: MEOH (SOIL)

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: SB
Diesel Range Organics (DRO)	33	9.4	mg/Kg	1	4/29/2021 1:01:46 PM
Motor Oil Range Organics (MRO)	54	47	mg/Kg	1	4/29/2021 1:01:46 PM
Surr: DNOP	88.1	70-130	%Rec	1	4/29/2021 1:01:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/29/2021 2:28:50 PM
Surr: BFB	97.3	70-130	%Rec	1	4/29/2021 2:28:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	4/29/2021 2:28:50 PM
Toluene	ND	0.040	mg/Kg	1	4/29/2021 2:28:50 PM
Ethylbenzene	ND	0.040	mg/Kg	1	4/29/2021 2:28:50 PM
Xylenes, Total	ND	0.080	mg/Kg	1	4/29/2021 2:28:50 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	4/29/2021 2:28:50 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	290	60	mg/Kg	20	4/29/2021 1:24:14 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

Page 12 of 16

Released to Imaging: 5/13/2024 4:04:13 PM

Client:	Ve	rtex Resource G	roup Lto	d.							
Project:	Sie	ebert 1									
Sample ID:	MB-59700	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	300.0: Anion	s		
Client ID:	PBS	Batcl	h ID: 59	700	F	RunNo: 77	029				
Prep Date:	4/29/2021	Analysis D	Date: 4/	29/2021	5	SeqNo: 27	31376	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-59700	SampT	ype: LC	s	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batcl	n ID: 59	700	F	RunNo: 77	/029				
Prep Date:	4/29/2021	Analysis D	Date: 4/	29/2021	S	SeqNo: 27	31377	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.5	90	110			

Qualifiers:

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

- 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 13 of 16

2104C16

03-May-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Siebert 1	esource G	roup Lto	1.							
Sample ID: MB-	59699	SampT	Type: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	i	Batcl	h ID: 59	699	F	unNo: 77	7044				
Prep Date: 4/2	9/2021	Analysis D	Date: 4/	29/2021	S	SeqNo: 27	730878	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic	cs (DRO)	ND	10								
Motor Oil Range Orga	anics (MRO)	ND	50								
Surr: DNOP		8.3		10.00		83.0	70	130			
Sample ID: LCS	-59699	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCS	S	Batcl	h ID: 59	699	F	unNo: 77	7044				
Prep Date: 4/2	9/2021	Analysis D	Date: 4/	29/2021	S	eqNo: 27	730879	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organio	cs (DRO)	42	10	50.00	0	83.7	68.9	141			
Surr: DNOP		4.3		5.000		86.4	70	130			

Qualifiers:

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

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

Page 14 of 16

2104C16

03-May-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Siebert 1	esource Gr	oup Lt	d.							
Sample ID: mb	0	SampT	ype: M I	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PB	s	Batch	n ID: G 7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis D	ate: 4	/29/2021	5	SeqNo: 2	731167	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0								
Surr: BFB		960		1000		96.2	70	130			
Sample ID: 2.5	oug gro Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LC	ss	Batch	n ID: G 7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis D	ate: 4	29/2021	S	SeqNo: 2	731168	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	24	5.0	25.00	0	96.8	78.6	131			
Surr: BFB		1100		1000		107	70	130			
Sample ID: 21	04c16-002ams	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID: BH	121-01 2'	Batch	n ID: G 7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis D	ate: 4	/29/2021	S	SeqNo: 2	731183	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	17	3.4	17.21	0	101	61.3	114			
Surr: BFB		810		688.2		117	70	130			
Sample ID: 21	04c16-002amsd	SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: BH	121-01 2'	Batch	n ID: G 7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis D	ate: 4	/29/2021	S	SeqNo: 2	731184	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	17	3.4	17.21	0	99.6	61.3	114	1.16	20	
Surr: BFB		810		688.2		118	70	130	0	0	

Qualifiers:

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

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

2104C16

03-May-21

WO#:

quantitation limits

enorting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Vertex Re	esource G	roup Lto	1.							
Project:	Siebert 1										
Sample ID: mb		SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS		Batc	h ID: B7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis E	Date: 4/	29/2021	S	SeqNo: 2	731214	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-Bromofluoro	benzene	1.0		1.000		100	70	130			
Sample ID: 100n	g btex lcs	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCS	S	Batc	h ID: B7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis E	Date: 4/	29/2021	S	SeqNo: 2	731215	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	103	80	120			
Toluene		1.0	0.050	1.000	0	104	80	120			
Ethylbenzene		1.0	0.050	1.000	0	102	80	120			
Xylenes, Total		3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluoro	benzene	1.0		1.000		104	70	130			
Sample ID: 2104	c16-003ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: BH21	1-01 4'	Batc	h ID: B7	7045	RunNo: 77045						
Prep Date:		Analysis E	Date: 4/	29/2021	S	SeqNo: 2	731231	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.023	0.9259	0	103	76.3	120			
Toluene		0.96	0.046	0.9259	0	103	78.5	120			
Ethylbenzene		0.94	0.046	0.9259	0	102	78.1	124			
Xylenes, Total		2.8	0.093	2.778	0	101	79.3	125			
Surr: 4-Bromofluoro	benzene	0.98		0.9259		106	70	130			
Sample ID: 2104	c16-003amsd	SampT	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BH21	1-01 4'	Batc	h ID: B7	7045	F	RunNo: 7	7045				
Prep Date:		Analysis E	Date: 4/	29/2021	S	SeqNo: 2	731232	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.023	0.9259	0	101	80	120	2.57	20	
Toluene		0.94	0.046	0.9259	0	102	80	120	1.68	20	
Ethylbenzene		0.93	0.046	0.9259	0	100	80	120	1.36	20	
Xylenes, Total		2.8	0.093	2.778	0	101	80	120	0.205	20	
Surr: 4-Bromofluoro	benzene	0.99		0.9259		107	70	130	0	0	

- 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

2104C16

03-May-21

WO#:

ANALYSIS LABORATORY	Albı TEL: 505-345-3975 Website: clients.ha	4901 Haw uquerque, NN FAX: 505-34 llenvironmen	kins NE 4 87109 45-4107 1tal.com	Sample Log-In Check List			
Client Name: Vertex Resource Group Ltd.	Work Order Number:	2104C16			RcptNo: 1		
Received By: Juan Rojas	4/29/2021 7:35:00 AM		Gion	En fr	a *		
Completed By: Cheyenne Cason	4/29/2021 7:48:42 AM		(lease	1			
Reviewed By: 5 GC 4/2A/21				-			
Chain of Custody							
1. Is Chain of Custody complete?		Yes 🗹	No		Not Present		
2. How was the sample delivered?		<u>Courier</u>					
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No		NA 🗌		
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No				
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	\checkmark	NA 🗌		
9. Received at least 1 vial with headspace <1/4"	or AQ VOA?	Yes 🗌	No				
10. Were any sample containers received broken'	?	Yes 🗆	No	✓			
11. Does paperwork match bottle labels?		Yes 🗹	No		# of preserved bottles checked for pH:		
(Note discrepancies on chain of custody)		Vec d	No		(<2 or >12 unleas noted) Adjusted?		
2. Are mainces correctly identified on Chain of Cl	ustody?	Yes 🔽	NO				
 4. Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No		Checked by: JR 4/29/21		
Special Handling (if applicable)					r~		
15. Was client notified of all discrepancies with th	s order?	Yes 🗌	No		NA 🗹		
Person Notified:	Date:		10-4000-10-00-00-00-00-00-00-00-00-00-00-00-				
By Whom:	Via:	eMail] Phone] Fax	🗌 In Person		
Regarding:	22.6.5		17.0 (C)		naminan fanominika junomono (17.1) (2000 70.12.10) and (18.10)		
Client Instructions:			ан менананулар на ресстатири				
16. Additional remarks:							
17. <u>Cooler Information</u>			i	_	Ĩ		
1 3.6 Good	I INTACT Seal No S	eal Date	Signed	Ву			

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Page 1 of 1

and a second second

Chain-of-Custody Record	Turn-Around Time:	(ecen
Client V . 1		
a nortex	I Standard K Rush Dome dow	ANALYSIS LABORATORY
nagi	Project Name:	www.hallenvironmental.com
Mailing Address:	Sichert #1	4901 Hawkins NE - Albuquerque, NM 87109
5/13/	Project #	Tel. 505-345-3975 Fax 505-345-4107
2024 2024	215-01540	Analysis Request
temail or Fax#:	Project Manager:	() () () () () ()
04/QC Package:	Monica Puppin	(802° (802° (802° (802°) (802°)
Accreditation:	Sampler: YYJ Y An Ire: W Vac	МТ (1 / С 808/ (1. 4 (1. 4 (1. 4 (1. 4 (1. 4 (1. 4) (1. 4
	# of Coolers: 1	0 ³ , 10 c 10 c 10 c 25 c
	Cooler Temporences: 3 2 2 (°C)	MTI 5D(83 Mei 1100 Mei 100
		Coli Pes 1016 1016
Date Time Matrix Sample Name	Container Preservative HEAL No.	
10-10HB 1:02 SH: L LC/M	402 ice a	
1 8:00 1 BH21-01 2'	200	
8:10 BH21-01 41	663	
8:20 BHal-0a 0'	had level	
8:30 BH21-02 1'	5-00	
8:40 BH21-02 3'	664	
9.20 BH21-06 0-05	200	
9:35 BH21-08 0-0.5	800	
9:55 BH21-11 0.0.5	Col	
10:30 BH21-13 0-0.5	010	
() 10:35 1 BH21-14 0-05'	110 1	
V 1130 Persaner BH21-07 11	210 015	
Date: Time: Relinquished by	Received P. Via: Date Time	Remarks:
1/24/21 0900 V	1 10 4/2012 6900	
Date: Time: Relinquisheebby:	Received by-	
11/12/14/14/14/14/14/14/14/14/14/14/14/14/14/	Counter ylpalize 71:35	BTA OII
If neressary samples submitted to Hall Environmental may be subc	contracted to other accordited laboratories. This serves as notice of this	s mossibility. Any sub-conditarted data will be clearly infated on the analytical report



May 11, 2021

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

RE: Siebert 1

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

OrderNo.: 2105140

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/5/2021 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 2105140

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.	C	Client Sample ID: BH21-18 0-0.5'
Project:	Siebert 1		Collection Date: 5/3/2021 7:45:00 AM
Lab ID:	2105140-001	Matrix: MEOH (SOIL)	Received Date: 5/5/2021 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	5/5/2021 10:36:55 AM	59816
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	2.8	mg/Kg	1	5/5/2021 11:38:09 AM	C77154
Surr: BFB	94.6	70-130	%Rec	1	5/5/2021 11:38:09 AM	C77154
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/5/2021 10:53:10 AM	59811
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/5/2021 10:53:10 AM	59811
Surr: DNOP	98.2	70-130	%Rec	1	5/5/2021 10:53:10 AM	59811
EPA METHOD 8260B: VOLATILES SHORT LIST	г				Analyst	BRM
Benzene	ND	0.014	mg/Kg	1	5/5/2021 11:38:09 AM	A77154
Toluene	ND	0.028	mg/Kg	1	5/5/2021 11:38:09 AM	A77154
Ethylbenzene	ND	0.028	mg/Kg	1	5/5/2021 11:38:09 AM	A77154
Xylenes, Total	ND	0.056	mg/Kg	1	5/5/2021 11:38:09 AM	A77154
Surr: 1,2-Dichloroethane-d4	119	70-130	%Rec	1	5/5/2021 11:38:09 AM	A77154
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/5/2021 11:38:09 AM	A77154
Surr: Dibromofluoromethane	118	70-130	%Rec	1	5/5/2021 11:38:09 AM	A77154
Surr: Toluene-d8	110	70-130	%Rec	1	5/5/2021 11:38:09 AM	A77154

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

Qualifiers:

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

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

Page 1 of 8

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105140

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.	C	Client Sample ID: BH21-19 0'
Project:	Siebert 1		Collection Date: 5/3/2021 10:00:00 AM
Lab ID:	2105140-002	Matrix: MEOH (SOIL)	Received Date: 5/5/2021 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	5/5/2021 10:49:20 AM	59816
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	5/5/2021 12:05:12 PM	C77154
Surr: BFB	96.6	70-130	%Rec	1	5/5/2021 12:05:12 PM	C77154
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/5/2021 1:18:09 PM	59811
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/5/2021 1:18:09 PM	59811
Surr: DNOP	97.3	70-130	%Rec	1	5/5/2021 1:18:09 PM	59811
EPA METHOD 8260B: VOLATILES SHORT LIST	г				Analyst	BRM
Benzene	ND	0.016	mg/Kg	1	5/5/2021 12:05:12 PM	A77154
Toluene	ND	0.032	mg/Kg	1	5/5/2021 12:05:12 PM	A77154
Ethylbenzene	ND	0.032	mg/Kg	1	5/5/2021 12:05:12 PM	A77154
Xylenes, Total	ND	0.065	mg/Kg	1	5/5/2021 12:05:12 PM	A77154
Surr: 1,2-Dichloroethane-d4	117	70-130	%Rec	1	5/5/2021 12:05:12 PM	A77154
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/5/2021 12:05:12 PM	A77154
Surr: Dibromofluoromethane	112	70-130	%Rec	1	5/5/2021 12:05:12 PM	A77154
Surr: Toluene-d8	114	70-130	%Rec	1	5/5/2021 12:05:12 PM	A77154

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

Qualifiers:

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

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

Page 2 of 8

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105140

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.	С	Client Sample ID: BH21-20 0'
Project:	Siebert 1		Collection Date: 5/3/2021 10:10:00 AM
Lab ID:	2105140-003	Matrix: MEOH (SOIL)	Received Date: 5/5/2021 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	5/5/2021 11:01:45 AM	59816
EPA METHOD 8015D MOD: GASOLINE RANGE	Ξ				Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	5/5/2021 12:32:16 PM	C77154
Surr: BFB	96.9	70-130	%Rec	1	5/5/2021 12:32:16 PM	C77154
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/5/2021 12:58:39 PM	59811
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/5/2021 12:58:39 PM	59811
Surr: DNOP	105	70-130	%Rec	1	5/5/2021 12:58:39 PM	59811
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	BRM
Benzene	ND	0.016	mg/Kg	1	5/5/2021 12:32:16 PM	A77154
Toluene	ND	0.033	mg/Kg	1	5/5/2021 12:32:16 PM	A77154
Ethylbenzene	ND	0.033	mg/Kg	1	5/5/2021 12:32:16 PM	A77154
Xylenes, Total	ND	0.066	mg/Kg	1	5/5/2021 12:32:16 PM	A77154
Surr: 1,2-Dichloroethane-d4	119	70-130	%Rec	1	5/5/2021 12:32:16 PM	A77154
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	5/5/2021 12:32:16 PM	A77154
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/5/2021 12:32:16 PM	A77154
Surr: Toluene-d8	111	70-130	%Rec	1	5/5/2021 12:32:16 PM	A77154

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

Qualifiers:

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

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

Page 3 of 8

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Client:	Vertex Re	esources Sei	vices	, Inc.							
Project:	Siebert 1										
Sample ID:	MB-59816	SampTy	be: MI	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 59	816	F	RunNo: 7	7148				
Prep Date:	5/5/2021	Analysis Da	te: 5/	/5/2021	S	SeqNo: 2	736489	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-59816	SampTy	be: LC	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 59	816	F	RunNo: 7	7148				
Prep Date:	5/5/2021	Analysis Da	te: 5/	/5/2021	S	SeqNo: 2	736490	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	94.2	90	110			
Sample ID:	2105035-001AMS	SampTy	be: MS	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch I	D: 59	816	F	RunNo: 7	7148				
Prep Date:	5/5/2021	Analysis Da	te: 5/	/5/2021	S	SeqNo: 2	736515	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		30	7.5	15.00	16.29	91.1	36.7	168			
Sample ID:	2105035-001AMS) SampTy	De: MS	SD	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	BatchQC	Batch I	D: 59	816	F	RunNo: 7	7148				
Prep Date:	5/5/2021	Analysis Da	te: 5/	/5/2021	S	SeqNo: 2	736516	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		27	7.5	15.00	16.29	70.4	36.7	168	10.9	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

- 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 8

2105140

11-May-21

WO#:



May 11, 2021

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

OrderNo.: 2105220

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Siebert 1

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/6/2021 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 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		Client Sample ID: BS21-01 4'
Project:	Siebert 1		Collection Date: 5/5/2021 8:0
Lab ID:	2105220-001	Matrix: MEOH (SOIL)	Received Date: 5/6/2021 7:3

Date: 5/5/2021 8:00:00 AM Received Date: 5/6/2021 7:30:00 AM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/6/2021 11:07:48 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/6/2021 11:07:48 AM
Surr: DNOP	103	70-130	%Rec	1	5/6/2021 11:07:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	5/6/2021 12:31:32 PM
Surr: BFB	92.6	70-130	%Rec	1	5/6/2021 12:31:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	5/6/2021 12:31:32 PM
Toluene	ND	0.038	mg/Kg	1	5/6/2021 12:31:32 PM
Ethylbenzene	ND	0.038	mg/Kg	1	5/6/2021 12:31:32 PM
Xylenes, Total	ND	0.077	mg/Kg	1	5/6/2021 12:31:32 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/6/2021 12:31:32 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	5/6/2021 11:31:43 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 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		Client Sampl
Project:	Siebert 1		Collection I
Lab ID:	2105220-002	Matrix: MEOH (SOIL)	Received 1

le ID: BS21-02 4' Date: 5/5/2021 8:10:00 AM

Date: 5/6/2021 7:30:00 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	9.1	mg/Kg	1	5/6/2021 11:31:49 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/6/2021 11:31:49 AM
Surr: DNOP	103	70-130	%Rec	1	5/6/2021 11:31:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/6/2021 12:54:52 PM
Surr: BFB	91.8	70-130	%Rec	1	5/6/2021 12:54:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	5/6/2021 12:54:52 PM
Toluene	ND	0.035	mg/Kg	1	5/6/2021 12:54:52 PM
Ethylbenzene	ND	0.035	mg/Kg	1	5/6/2021 12:54:52 PM
Xylenes, Total	ND	0.070	mg/Kg	1	5/6/2021 12:54:52 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/6/2021 12:54:52 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	78	60	mg/Kg	20	5/6/2021 11:44:07 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 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		Client Sample ID: BS21-03 4'
Project:	Siebert 1		Collection Date: 5/5/2021 8:20:00 AM
Lab ID:	2105220-003	Matrix: MEOH (SOIL)	Received Date: 5/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/6/2021 12:00:32 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/6/2021 12:00:32 PM
Surr: DNOP	98.0	70-130	%Rec	1	5/6/2021 12:00:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	5/6/2021 1:42:02 PM
Surr: BFB	91.1	70-130	%Rec	1	5/6/2021 1:42:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.016	mg/Kg	1	5/6/2021 1:42:02 PM
Toluene	ND	0.033	mg/Kg	1	5/6/2021 1:42:02 PM
Ethylbenzene	ND	0.033	mg/Kg	1	5/6/2021 1:42:02 PM
Xylenes, Total	ND	0.066	mg/Kg	1	5/6/2021 1:42:02 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/6/2021 1:42:02 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	150	61	mg/Kg	20	5/6/2021 11:56:32 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 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		
Project:	Siebert 1		
Lab ID:	2105220-004	Matrix:	MEOH (SOIL)

Client Sample ID: WS21-01 0-4' Collection Date: 5/5/2021 8:30:00 AM

Received Date: 5/6/2021 7:30:00 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	9.1	mg/Kg	1	5/6/2021 12:13:06 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/6/2021 12:13:06 PM
Surr: DNOP	98.4	70-130	%Rec	1	5/6/2021 12:13:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/6/2021 2:05:29 PM
Surr: BFB	91.4	70-130	%Rec	1	5/6/2021 2:05:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	5/6/2021 2:05:29 PM
Toluene	ND	0.035	mg/Kg	1	5/6/2021 2:05:29 PM
Ethylbenzene	ND	0.035	mg/Kg	1	5/6/2021 2:05:29 PM
Xylenes, Total	ND	0.069	mg/Kg	1	5/6/2021 2:05:29 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/6/2021 2:05:29 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	5/6/2021 12:08:56 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
- 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 11



August 15, 2023

CHANCE DIXON VERTEX RESOURCE GROUP 420 SOUTH MAIN, SUITE 202 TULSA, OK 74103

RE: SIEBERT #1

Enclosed are the results of analyses for samples received by the laboratory on 08/09/23 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESO CHANCE DIXO 420 SOUTH M	URCE GROUP N AIN, SUITE 202								
		TULSA UK, 74	TULSA UK, 74103								
		Fax To: N	IA								
Received:	08/09/2023		Sampling Date:	08/03/2023							
Reported:	08/15/2023		Sampling Type:	Soil							
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)							
Project Number:	23E-		Sample Received By:	Tamara Oldaker							
Project Location:	BTA										

Sample ID: BS 23 - 04 0.5 (H234254-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	82.0 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RES CHANCE DIX 420 SOUTH TULSA OK,	GOURCE GROUP (ON MAIN, SUITE 202 74103	
		Fax To:	NA	
Received:	08/09/2023		Sampling Date:	08/03/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: BS 23 - 05 0.5 (H234254-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	80.7 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	ESOURCE GROU DIXON H MAIN, SUITE 2 , 74103	P 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 06 0.5 (H234254-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE E 420 SOUT TULSA OK	ESOURCE GROU DIXON H MAIN, SUITE 2 C, 74103	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 07 0.5 (H234254-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 %	49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE E 420 SOUT	ESOURCE GROU DIXON H MAIN, SUITE 2	P 202					
Fax To: NA									
		Tax 10.	NA						
Received:	08/09/2023			Sampling Date:	08/03/2023				
Reported:	08/15/2023			Sampling Type:	Soil				
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)				
Project Number:	23E-			Sample Received By:	Tamara Oldaker				
Project Location:	BTA								

Sample ID: BS 23 - 08 0.5 (H234254-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	81.5	48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	ESOURCE GROU DIXON TH MAIN, SUITE K, 74103	JP 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 09 0.5 (H234254-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RE CHANCE D 420 SOUTH TUU SA OK	ESOURCE GROUF IXON 1 MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 10 1.5 (H234254-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		Vertex R Chance e 420 Sout Tulsa ok	ESOURCE GROUI DIXON H MAIN, SUITE 2 7, 74103	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 11 1.5 (H234254-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RI CHANCE D 420 SOUTI TUUSA OK	ESOURCE GROUF DIXON H MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 12 1.5 (H234254-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		Vertex R Chance e 420 Sout Tulsa ok	ESOURCE GROUI DIXON H MAIN, SUITE 2 7, 74103	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 13 1.5 (H234254-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOUCHANCE DIXO 420 SOUTH M/ TULSA OK, 743	JRCE GROUP N AIN, SUITE 202 103	
		Fax To: N	Α	
Received:	08/09/2023		Sampling Date:	08/03/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By	: Tamara Oldaker
Project Location:	BTA			

Sample ID: BS 23 - 14 1.5 (H234254-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	75.0	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


Analytical Results For:

		VERTEX RI CHANCE D 420 SOUTI TUUSA OK	ESOURCE GROUF DIXON H MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 15 1.5 (H234254-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RE CHANCE D 420 SOUTH TUU SA OK	ESOURCE GROUF IXON 1 MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 16 1.5 (H234254-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	80.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOURCE CHANCE DIXON 420 SOUTH MAIN, S TULSA OK, 74103	GROUP GUITE 202	
		Fax To: NA		
Received:	08/09/2023		Sampling Date:	08/03/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: BS 23 - 17 1.5 (H234254-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	167	83.6	200	2.47	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	164	81.9	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RE CHANCE D 420 SOUTH TUU SA OK	ESOURCE GROUF IXON 1 MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 18 1.5 (H234254-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	esource grou Dixon 'H Main, suite 1. 74103	P 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 19 1.5 (H234254-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RI CHANCE D 420 SOUTI TUUSA OK	ESOURCE GROUF DIXON H MAIN, SUITE 2 74103	02	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 20 1.5 (H234254-17)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	′kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		Vertex R Chance e 420 Sout Tulsa ok	ESOURCE GROUI DIXON H MAIN, SUITE 2 7, 74103	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 21 1.5 (H234254-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOURCE CHANCE DIXON 420 SOUTH MAIN, S TULSA OK, 74103	GROUP GUITE 202	
		Fax To: NA		
Received:	08/09/2023		Sampling Date:	08/03/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: BS 23 - 22 1.5 (H234254-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	1.97	98.6	2.00	0.594	
Toluene*	<0.050	0.050	08/11/2023	ND	1.88	94.0	2.00	0.772	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.88	93.8	2.00	0.515	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.52	92.0	6.00	0.312	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	72.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	esource grou Dixon Th Main, suite : K, 74103	P 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/03/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 23 1.5 (H234254-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	66.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	58.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK Fax To:	Resource grou Dixon Th Main, suite (, 74103 Na	JP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 24 (H234254-21)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	ESOURCE GROU DIXON TH MAIN, SUITE (, 74103	JP 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 25 (H234254-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK Fax To:	RESOURCE GRO DIXON TH MAIN, SUITE K, 74103 NA	UP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 26 (H234254-23)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX F CHANCE I 420 SOUT TULSA OF Fax To:	Resource grou Dixon Th Main, suite K, 74103 NA	IP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 27 (H234254-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.0	% 49.1-14	8						

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Analytical Results For:

		VERTEX F CHANCE I 420 SOUT	ESOURCE GROU DIXON TH MAIN, SUITE	JP 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 28 (H234254-25)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

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Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK Fax To:	Resource grou Dixon Th Main, suite (, 74103 Na	JP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: BS 23 - 29 (H234254-26)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

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Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	ESOURCE GRO DIXON TH MAIN, SUITE	UP 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 05 (H234254-27)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	68.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.0	% 49.1-14	8						

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Analytical Results For:

		VERTEX F CHANCE I 420 SOUT TULSA OF Fax To:	Resource grou Dixon Th Main, suite K, 74103 NA	IP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 06 (H234254-28)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	65.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.7	% 49.1-14	8						

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Analytical Results For:

		VERTEX R CHANCE I 420 SOUT TULSA OK	ESOURCE GRO DIXON TH MAIN, SUITE	UP 202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 07 (H234254-29)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	62.3 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.0 \$	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX F CHANCE I 420 SOUT TULSA OF Fax To:	Resource grou Dixon Th Main, suite K, 74103 NA	IP 202	
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 08 (H234254-30)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOU CHANCE DIXON 420 SOUTH MAI	RCE GROUP N, SUITE 202	
		Fax To: NA		
Received:	08/09/2023		Sampling Date:	08/04/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: WS 23 - 09 0-1.5 (H234254-31)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOU CHANCE DIXON 420 SOUTH MAI	RCE GROUP N, SUITE 202	
		Fax To: NA		
Received:	08/09/2023		Sampling Date:	08/04/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: WS 23 - 10 0-1.5 (H234254-32)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.1	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RESOU CHANCE DIXON 420 SOUTH MAI	RCE GROUP	
		Fax To: NA	13	
Received:	08/09/2023		Sampling Date:	08/04/2023
Reported:	08/15/2023		Sampling Type:	Soil
Project Name:	SIEBERT #1		Sampling Condition:	** (See Notes)
Project Number:	23E-		Sample Received By:	Tamara Oldaker
Project Location:	BTA			

Sample ID: WS 23 - 11 0.5-1.5 (H234254-33)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	71.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE D 420 SOUT TULSA OK	ESOURCE GROUI DIXON H MAIN, SUITE 2 . 74103	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 12 0-0.5 (H234254-34)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	176	87.8	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	181	90.3	200	7.83	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX R CHANCE D 420 SOUT	ESOURCE GROU DIXON H MAIN, SUITE 2	P 202	
			, 74105		
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 13 0-0.5 (H234254-35)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	174	87.0	200	3.56	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	178	88.8	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		VERTEX RE CHANCE D 420 SOUTE	ESOURCE GROUF IXON H MAIN, SUITE 2 74102	202	
		Fax To:	NA		
Received:	08/09/2023			Sampling Date:	08/04/2023
Reported:	08/15/2023			Sampling Type:	Soil
Project Name:	SIEBERT #1			Sampling Condition:	** (See Notes)
Project Number:	23E-			Sample Received By:	Tamara Oldaker
Project Location:	BTA				

Sample ID: WS 23 - 14 0-0.5 (H234254-36)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.08	104	2.00	1.49	
Toluene*	<0.050	0.050	08/11/2023	ND	2.16	108	2.00	0.103	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.20	110	2.00	0.789	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.75	112	6.00	0.508	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	174	87.0	200	3.56	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	178	88.8	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Д **RDINAL** poratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

roject Manager:	A oil I Vertex	BILL TO	ANALYSIS REQUEST
ddress:	NUTCE IVIX ON	P.O. #	
ity:	Cénér	Company: BTHA	
none #:	Fax #:	Addresses.	
roject #: 03 E -	Project Owner: Kuton Big	And City:	
roject Name: Ji UO.	5- 4-	State: Zip:	
oject Location: SIJ	1005+ # -	Phone #:	
Impler Name:	τ	Fax #:	
JIF LAB USE ONLY	P. MATR	IX PRESERV. SAMPLING	
-ab I.D. 1234254	G)RAB OR (C)OM CONTAINERS GROUNDWATER VASTEWATER SOIL	BTEX TBTEX	CI
1 8523	-04 0.7		
n u	5.0 °C	75:0	
er l		7:70	
9-	08 0.5	34.4	
10	09	7:57-	
97		0.00	
2	1.7	8:10	
E NOTE: Liability and Damages, Cards Is, All claims including those for neglige	inal's lability and dent's exclusive remedy for any claim arising whether based in one ence and any other cause whatsoever shall be deemed valued unless makes in one	Intact or tort, shall be limited to the amount paid by the client for the	
sor successors arising out of or related	rincidential or consequential damages, including without limitation, business interrupion in the performance of services hereunder by Cardinal, regardless of whether such or the second services in the second services are second as a second seco	ciris, loss of use, or loss of profits incurred by client, its subsidiaries, last is based upon any of the above stated reasons or otherwise.	
(MA	Time: 2.2.2 Received BY:	All Results are emailed. Pl	No Add'I Phone #: ease provide Email address:
rquished By:	Date: Received By:	WARNER REMARKS: Direct	511 BTH
vered By: (Circle One)	Observed Temp. *CQ Sample Con	dition CHECKED BY. TUCCIC CAIX	onevertex, ca
FURM-000 R 3.2 MID/12	Corrected Temp. °C	No A C Correction Factor Asia	Sh Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Received by OCD: 4/17/2024 11:14:03 AM

CARDINAL

Released to Imaging: 5/13/2024 4:04:13 PM

Received	by	OCD:	4/17/2024	11:14:03 AM	
Г	Ś	-	70		

Project Manager CL A I Verter	BIL	ANALYSIS REQUEST
The reader of the reader	P.O. #:	
Address:	Company: R	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Own	ner: City:	
Project Name: SINON+ 41	State: Zij	
Project Location:	Phone #:	
sampler Name: I NJ P	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	G)RAB OR (C)OMF CONTAINERS ROUNDWATER /ASTEWATER OIL IL LUDGE THER : CID/BASE: E / COOL THER ;	STEX TPIH CI-
J 1 1- 5059 11		13 8.30 1 1 1
12 16 1.5		26.90
14 17 1.5		8:35
SIL RI SI		04:8
1.1 LI 23		24:0
1. 1.6 81		0.50
21 60 11		9:00
SE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remarks for an		9:05 1 1 1
es. All claims including those for negligence and any other cause whatsoever shall be e. In no event shall Cardinal be lable for incidental or consequental damages, including es of successors arising out of or relationship performance of services hereunder by Ca incidence.		ount paid by the client for the tags after completion of the applicable and by client. Its subsidiaries.
nquished By:	Received By: Januara Alda Kin	Verbal Result:
Time:	Necessed by:	REMARKS:
livered By: (Circle One) Observed Temp *C	Sample Condition CHECKED BY	: Turnaround Time: Standard of Bacteria (anks) Condition

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Address:	P.O.#	ANALYSIS REQUEST
City: State:	Company: VS 1/N	
Phone #: Fax #:	Attn:	
Project #: Project Owner:	Cito.	
Project Name: Si Wort #1	State: Zin	
Project Location:		
Sampler Name:	Fax#:	
FOR LAB USE ONLY	MATDIV	
Lab I.D. Sample I.D.	DR (C)OMP.	
Hashesh	(G)RAB # CONT/ GROUNI WASTEV SOIL OIL SLUDGE OTHER : ACID/BAS CE / COO DTHER :	CI
2 SPS R	8/4 8:00	
	\$0:8	
ay ye	01:30	
86 28	8.12	
100 700	76.8	
En. crem / c	8:30	
and of	٢. :8	
EASE NOTE: Likehildward Damasan Duda a U	0. 42	
alyses. All claims including those for negligence and any other curst sociative energy to any claim roce. In no even shall Cardinal be liable for incidental or consequential damages including withous Trates or successors arising out of or reliabet the performance of services hereunder by Cardina to Interview of the services hereunder by Cardina	im arising whether based in contract or fort, shall be limited to the amount paid by the client for the red valved unless made in writing and received by Cardinal within 30 days after completion of the applicable out limitation, business interruptions, loss of use or loss of profits incurred by client, its subaidaries, all requertless of whether such claims is haved user or an end.	
Time: 9, 23 me	eceived by: Verbal Result: Verbal Re	es Do Add'I Phone #:
elinquished By:	COUNTRY CHARACTER REMARKS:	, riedse provide Email address:
elivered By: /Circle Onol	REMARKS:	
ampler - UPS - Bus - Other: Corrected Temp. *C	Cool Intact Ves No	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 4/17/2024 11:14:03 AM

P.O. #
Address: Company:
City: State: Zip: Attn:
Frione #: Fax #: Address:
Project #: Project Owner: City:
Project Name: Sicourt # / State: 7in.
Project Location: Phone #
Sampler Name:
FOR LAE USE ONLY
Lab I.D. Sample I.D. DR (C)OMP.
(G)RAB # CONT GROUN WASTEN SOIL OIL SLUDGE OTHER ACID/BA ICE / CO OTHER THE THE TO TO THE TO TO THE TO TO TO TO TO TO TO TO TO TO TO TO TO
32 10 0-1.5
34 12 0.5-1.5
35 13 0-0.5
S.0-0 hl ac
er. All chains including those for engigence and any other subside tenedy for any chain analysis whether based in contract or lort shall be limited to the amount paid by the client for the is in no event shall Cardinal be liable for incidental or consequential damages including without limitation, business made in writing and received by Cardinal within 30 days after completion of the applicable is or successors arising out of or related to the performance of services hereunder by Cardinal, negatives to their subsidiaries. It is based upon any of the antice to the subsidiaries.
Time: Ti
Time:
Invered By: (Circle One) Observed Temp. *C 294 Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Sample Cool Intact (Initials) Internometer ID error #/40 Cool Intact Observed Temp. *C Yes Yes

Released to Imaging: 5/13/2024 4:04:13 PM

Page 138 of 181

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		
Project:	Siebert 1		
Lab ID:	2105220-005	Matrix:	MEOH (SOIL)

Client Sample ID: WS21-02 0-4' Collection Date: 5/5/2021 8:40:00 AM

Received Date: 5/6/2021 7:30:00 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	8.8	mg/Kg	1	5/6/2021 11:55:50 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/6/2021 11:55:50 AM
Surr: DNOP	102	70-130	%Rec	1	5/6/2021 11:55:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	5/6/2021 2:29:10 PM
Surr: BFB	88.6	70-130	%Rec	1	5/6/2021 2:29:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.018	mg/Kg	1	5/6/2021 2:29:10 PM
Toluene	ND	0.036	mg/Kg	1	5/6/2021 2:29:10 PM
Ethylbenzene	ND	0.036	mg/Kg	1	5/6/2021 2:29:10 PM
Xylenes, Total	ND	0.071	mg/Kg	1	5/6/2021 2:29:10 PM
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	5/6/2021 2:29:10 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	66	60	mg/Kg	20	5/6/2021 12:21:21 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
- 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 11

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		
Project:	Siebert 1		
Lab ID:	2105220-006	Matrix:	MEOH (SOIL)

Client Sample ID: WS21-03 0-4' Collection Date: 5/5/2021 8:50:00 AM

Received Date: 5/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/6/2021 11:44:08 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/6/2021 11:44:08 AM
Surr: DNOP	98.2	70-130	%Rec	1	5/6/2021 11:44:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	5/6/2021 2:52:32 PM
Surr: BFB	92.6	70-130	%Rec	1	5/6/2021 2:52:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	5/6/2021 2:52:32 PM
Toluene	ND	0.038	mg/Kg	1	5/6/2021 2:52:32 PM
Ethylbenzene	ND	0.038	mg/Kg	1	5/6/2021 2:52:32 PM
Xylenes, Total	ND	0.077	mg/Kg	1	5/6/2021 2:52:32 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/6/2021 2:52:32 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	5/6/2021 12:33:45 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
- 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 11

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2105220

Date Reported: 5/11/2021

CLIENT:	Vertex Resources Services, Inc.		
Project:	Siebert 1		
Lab ID:	2105220-007	Matrix:	MEOH (SOIL)

Client Sample ID: WS21-04 0-4' Collection Date: 5/5/2021 9:00:00 AM

Received Date: 5/6/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/6/2021 11:53:43 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/6/2021 11:53:43 AM
Surr: DNOP	98.4	70-130	%Rec	1	5/6/2021 11:53:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	5/6/2021 3:16:00 PM
Surr: BFB	91.8	70-130	%Rec	1	5/6/2021 3:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.015	mg/Kg	1	5/6/2021 3:16:00 PM
Toluene	ND	0.031	mg/Kg	1	5/6/2021 3:16:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	5/6/2021 3:16:00 PM
Xylenes, Total	ND	0.062	mg/Kg	1	5/6/2021 3:16:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/6/2021 3:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/Kg	20	5/6/2021 12:46:10 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
- 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 11

Client: Project:	Vertex Siebert	Resources Servi 1	ces, Inc.						
Sample ID: Client ID:	B-59840 SampType: MBLK TestCode: EPA Method 300.0: Anions PBS Batch ID: 59840 RunNo: 77183								
Prep Date:	5/6/2021	Analysis Date:	5/6/2021	S	SeqNo: 2737988	Units: mg/Kg			
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RF	D RPDLimit	Qual	
Chloride		ND	1.5						
Sample ID:	LCS-59840	SampType	LCS	Tes	tCode: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	59840	R	tunNo: 77183				
Prep Date:	5/6/2021	Analysis Date: 5/6/2021 SeqNo: 2737989 Units: mg/Kg							
Analyte		Result PO	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RF	D RPDLimit	Qual	
Chloride		14	1.5 15.00	0	94.5 90	110			

Qualifiers:

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

- 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 8 of 11

2105220

11-May-21

WO#:

Client:	Vertex R	esources S	ervices	, Inc.							
Project:	Siebert 1										
Sample ID: MB-	-59839	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	6	Batcl	n ID: 59	839	F	RunNo: 7	7188				
Prep Date: 5/6	6/2021	Analysis D)ate: 5/	6/2021	S	SeqNo: 2	737171	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	ND	10								
Motor Oil Range Org	anics (MRO)	ND	50								
Surr: DNOP		9.1		10.00		91.2	70	130			
Sample ID: LCS	5-59839	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCS	S	Batcl	n ID: 59	839	F	RunNo: 7	7188				
Prep Date: 5/6	6/2021	Analysis E	Date: 5/	6/2021	5	SeqNo: 2	737173	Units: mg/K	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	47	10	50.00	0	94.2	68.9	141			
Surr: DNOP		4.6		5.000		92.4	70	130			

Qualifiers:

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

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

Page 9 of 11

2105220

11-May-21

WO#:

Client:	Vertex Reso	urces Sei	vices	, Inc.							
Project:	Siebert 1										
Sample ID: mb		SampTy	be: MI	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch	D: G7	7197	R	unNo: 7	7197				
Prep Date:	Aı	nalysis Da	te: 5/	6/2021	S	eqNo: 2	737844	Units: mg/k	٢g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO)	ND	5.0								
Surr: BFB		850		1000		84.6	70	130			
Sample ID: 2.5ug g	ro Ics	SampTy	be: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS		Batch	D: G7	77197	R	tunNo: 7	7197				
Prep Date:	Aı	nalysis Da	te: 5/	6/2021	S	eqNo: 2	737845	Units: mg/k	٢g		
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO)	24	5.0	25.00	0	97.7	78.6	131			
Surr: BFB		1000		1000		100	70	130			

Qualifiers:

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- D Sample Diluted Due to 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

Page 10 of 11

2105220

11-May-21

WO#:
Client:	Vertex Res	ources S	ervices,	Inc.							
Project:	Siebert 1										
Sample ID: mb		SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS		Batc	h ID: B7	7197	F	RunNo: 77	7197				
Prep Date:	A	Analysis E	Date: 5/	6/2021	S	SeqNo: 2	737892	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-Bromofluorober	nzene	0.94		1.000		93.6	70	130			
Sample ID: 100ng b	otex lcs	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS		Batc	h ID: B7	7197	F	RunNo: 7	7197				
Prep Date:	A	Analysis E	Date: 5/	6/2021	S	SeqNo: 27	737893	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	103	80	120			
Toluene		1.0	0.050	1.000	0	104	80	120			
Ethylbenzene		1.0	0.050	1.000	0	103	80	120			
Xylenes, Total		3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorober	nzene	1.0		1.000		102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix 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

Page 11 of 11

WO#: 2105220

11-May-21

Pag	e 14	16 o	f1	81

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-3973 Website: clients.ha	Analy 490 uquerq 5 FAX: ullenvii	sis Labo I Hawk ue, NM 505-345 onmenta	oratory ins NE 87109 5-4107 al.com	Sar	mple Log-In Check List
Client Name: Vertex Resource Group Ltd.	Work Order Number	: 210	5220			RcptNo: 1
Received By: Juan Rojas	5/6/2021 7:30:00 AM			ifu	ansig	
Completed By: Desiree Dominguez	5/6/2021 7:42:36 AM			-1-	2-	
Reviewed By: SGL Slelz					~ ~	
Chain of Custody						
1. Is Chain of Custody complete?		Yes	\checkmark	1	lo 🗌	Not Present
2. How was the sample delivered?		Cou	ier			
Log In					. ET	
o. Was an altempt made to cool the samples?		res		r.		
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	~	N	lo 🗆	
5. Sample(s) in proper container(s)?		Yes		N	lo 🗆	
6. Sufficient sample volume for indicated test(s	?	Yes		N	•	
7. Are samples (except VOA and ONG) properly	y preserved?	Yes	\checkmark	N	o 🗌	
8. Was preservative added to bottles?		Yes		N	• 🗸	NA 🗌
9. Received at least 1 vial with headspace <1/4	' for AQ VOA?	Yes		N	• 🗆	NA 🗹
 Were any sample containers received broke 	n?	Yes		N	lo 🗹	# of preserved
11. Does paperwork match bottle labels?		Yes	~	N	o 🗌	for pH:
(Note discrepancies on chain of custody)			-		_	(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes		N	•	Adjusted?
13. Is it clear what analyses were requested?		Yes		N	• 🗆	10 -116
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		N	o 🗀	enecked by: JVC 51612
Special Handling (if applicable)						
15. Was client notified of all discrepancies with t	his order?	Yes		N	lo 🗌	NA 🗹
Person Notified:	Date:					
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 Se	eal Intact Seal No S	Seal D	ate	Signe	d By	

Page 1 of 1

ss:	5	5.2 0							INTAL
Proje	Standard Z Rus	-			ANA	XS	LS.	ABORA	TORY
Proje	ect Name:	-			1.www	allenvir		ntal.com)
Proje	nicbert 井		490	1 Haw	kins NE	- Albu	auera	ue. NM 87109	
	ct #:		Te	. 505-3	45-397	5 E	ax 505	5-345-4107	
0	11 01540	0				Analys	sis Re	quest	1
Proje	ect Manager:		() (1			[⊅] O	-	(Ju	
□ Level 4 (Full Validation)	Jonica Pe	ppin	208) s	S'B'S	SMIS	S '⁺Od		i9sdA\t	
□ Az Compliance Sam	pler: MJP		BRG MB	۲) ۱280	0228	05'		uəse	
Other	te: Bryes	ON []	/ 07 L /	98/s	3 10	N '	(A	Pre	
# of (Coolers: 1		(GR	e bi	01	10 ³	0/-) ա.	
Coole	er Temp(including CF): 0	.3.0.250. (°C)	TM 15D(ethc ethc	68 Y	L' 1	(AO -im9	ıotilo	
Matrix Sample Name Type	ainer Preservative and # Type	2105220	BTEX/	9081 Pe	id eHA9 8 A929	CLE, B	V) 0728 2) 0728	D letoT	
50:1 BS21-01 41 H	02 1100	- 001	1			1			
1 "Y to-1628 1		2001	>>	_		1			
3521-03 41		-003	11			1			
W521-01 0-41		- 004	~ ~			>			
1, 4, 2, 2, 0, 4, 1		- 005	1 >			1			
USA1-03 0.41		- 006	1			>			
WINSQI-OU 0-4'	>	t00 -	>			5			
Solinariishad Ime	And hur Via-	Data Time		+			-		
	JUUUUU	5/5/21 1200	Кетагка	÷					
Contraction Received by:	ed by: via: o	Date Time	BTA	ic					

Client:	Vertex Re	esources S	ervices	, Inc.							
Project:	Siebert 1										
Sample ID:	MB-59811	SampT	Гуре: МГ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batc	h ID: 59	811	F	RunNo: 7	7152				
Prep Date:	5/5/2021	Analysis E	Date: 5/	/5/2021	S	SeqNo: 2	735839	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		9.6		10.00		95.6	70	130			
Sample ID:	LCS-59811	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batc	h ID: 59	811	F	RunNo: 7	7152				
Prep Date:	5/5/2021	Analysis E	Date: 5/	/5/2021	5	SeqNo: 2	735840	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	10	50.00	0	97.0	68.9	141			
Surr: DNOP		4.7		5.000		93.8	70	130			
Sample ID:	2105140-001AMS	SampT	Гуре: М	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BH21-18 0-0.5'	Batc	h ID: 59	811	F	RunNo: 7	7152				
Prep Date:	5/5/2021	Analysis E	Date: 5/	/5/2021	S	SeqNo: 2	736208	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	8.9	44.52	0	93.5	15	184			
Surr: DNOP		4.0		4.452		90.3	70	130			
Sample ID:	2105140-001AMS	Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BH21-18 0-0.5'	Batc	h ID: 59	811	F	RunNo: 7	7152				
Prep Date:	5/5/2021	Analysis E	Date: 5/	/5/2021	S	SeqNo: 2	736209	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	47	9.8	49.12	0	95.7	15	184	12.1	23.9	
Surr: DNOP		4.7		4.912		94.8	70	130	0	0	

Qualifiers:

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

- 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

2105140

11-May-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Vertex R	lesources S	Services,	Inc.							
Project: Siebert 1										
Sample ID: 2105139-002a ms		Type: MS	3	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batc	h ID A7	7154	F	RunNo: 7	7154				
Prep Date:	Analysis [Date: 5/	5/2021	:	SeqNo: 2	736548	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.018	0.7215	0.009993	109	70	130			
Toluene	0.71	0.036	0.7215	0.008348	97.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.3608		114	70	130			
Surr: 4-Bromofluorobenzene	0.35		0.3608		96.4	70	130			
Surr: Dibromofluoromethane	0.40		0.3608		111	70	130			
Surr: Toluene-d8	0.35		0.3608		96.2	70	130			
Sample ID: 2105139-002a ms	d Samp	Гуре: МS	SD	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batc	h ID: A7	7154	F	RunNo: 7	7154				
Prep Date:	Analysis [Date: 5/	5/2021	S	SeqNo: 2	736549	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.018	0.7215	0.009993	102	70	130	6.45	20	
Toluene	0.70	0.036	0.7215	0.008348	95.8	70	130	1.49	20	
Surr: 1,2-Dichloroethane-d4	0.40		0.3608		112	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.35		0.3608		97.2	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.3608		108	70	130	0	0	
Surr: Toluene-d8	0.36		0.3608		99.4	70	130	0	0	
Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batc	h ID: A7	7154	F	RunNo: 7	7154				
Prep Date:	Analysis [Date: 5/	5/2021	5	SeqNo: 2	736550	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.59		0.5000		118	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		114	70	130			
	0.06		0.5000		113	70	130			
Sample ID: 100ng Ics	Samp	Гуре: LC	S	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batc	h ID: A7	7154	F	RunNo: 7	7154				
Prep Date:	Analysis [Date: 5/	5/2021	5	SeqNo: 2	736588	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	70	130			
Toluene	0.97	0.050	1.000	0	96.9	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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 8

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Page 149 of 181

WO#.	2105140
WO#:	2105140

11-May-21

Client: Project:	Vertex R Siebert 1	lesources S	ervices	, Inc.							
Sample ID: 100ng	lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS		Batcl	n ID: A7	7154	R	lunNo: 7	7154				
Prep Date:		Analysis D	Date: 5/	5/2021	S	eqNo: 27	736588	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroetha	ane-d4	0.59		0.5000		119	70	130			
Surr: 4-Bromofluorob	enzene	0.51		0.5000		103	70	130			
Surr: Dibromofluorom	ethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8		0.51		0.5000		103	70	130			

Qualifiers:

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- P Sample pH Not In Range

Page 7 of 8

2105140

11-May-21

WO#:

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Res Siebert 1	ources S	ervices	, Inc.							
Sample ID: 2.5ug	gro Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS		Batch	n ID: C7	7154	F	RunNo: 7	7154				
Prep Date:	1	Analysis D)ate: 5/	/5/2021	5	SeqNo: 2	736567	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	25	5.0	25.00	0	99.6	70	130			
Surr: BFB		480		500.0		96.4	70	130			
Sample ID: 210513	9-001a ms g	SampT	ype: M	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: Batch	ac	Batch	n ID: C7	7154	F	RunNo: 7	7154				
Prep Date:	/	Analysis D)ate: 5/	/5/2021	S	SeqNo: 2	736568	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	18	3.3	16.37	3.890	84.7	49.2	122			
Surr: BFB		310		327.5		93.8	70	130			
Sample ID: 210513	9-001a msd	g SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: Batch0	2C	Batch	n ID: C7	7154	F	RunNo: 7	7154				
Prep Date:	/	Analysis D	Date: 5	/5/2021	S	SeqNo: 2	736569	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	17	3.3	16.37	3.890	80.8	49.2	122	3.68	20	
Surr: BFB		300		327.5		90.1	70	130	0	0	
Sample ID: mb		SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS		Batch	n ID: C7	7154	F	RunNo: 7	7154				
Prep Date:	/	Analysis D	ate: 5	/5/2021	S	SeqNo: 2	736570	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	ND	5.0								
Surr: BFB		510		500.0		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

- 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

2105140

11-May-21

WO#:

	RONMENTAL YSIS Ratory	Hall Environmenta Alb TEL: 505-345-397: Website: clients.ht	Analysis Labor 4901 Hawkii uquerque, NM 8 5 FAX: 505-345 allenvironmenta	ratory ns NE 87109 San -4107 1.com	nple Log-In C	heck List
Client Name:	Vertex Resource Group Ltd.	Work Order Number	: 2105140		RcptNo:	1
Received By:	Juan Rojas	5/5/2021 7:25:00 AM		Guan g		
Completed By:	Desiree Dominguez	5/5/2021 7:59:40 AM		TP>		
Reviewed By:						
Chain of Cus	stody					
1. Is Chain of C	sustody complete?		Yes 🗹	No 🗌	Not Present 🗌	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u> 3. Was an atter	npt made to cool the sample	95?	Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	ples received at a temperati	ure of >0° C to 6. 0 °C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient san	nple volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗌		
8. Was preserva	ative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at la	east 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	
10, Were any sa	mple containers received br	oken?	Yes 🗌	No 🗹	# of preserved	·
11.Does paperw (Note discrep	ork match bottle labels?		Yes 🗹	No 🗌	bottles checked for pH:	>12 miless noted)
2. Are matrices	correctly identified on Chain	of Custody?	Yes 🖌	No 🗌	Adjusted?	
13. Is it clear what	t analyses were requested?		Yes 🗹	No 🗌		1. 1.
14. Were all hold (If no, notify c	ing times able to be met? sustomer for authorization.)		Yes 🗹	No 🗌	Checked by:	Jn 5/5/2
Special Hand	ling (if applicable)				¢	
15. Was client n	otified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:				
By Wh	om:	, Via: [eMail 🔄 I	Phone 📋 Fax	In Person	
Regard	ling:		<u></u>		II. 18100 (
Client I	nstructions:		ан малан на бала на селото на с			
16. Additional re	marks:					
17. <u>Cooler In</u> fo	rmation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	3.3 Good					

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Received by OCD: 4/17/202	1:14:03 AM	Page 153 of 1
 HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATOR ANALYSIS LABORATOR Manukina NE - Albuquerque, NM 87109 505-345-3975 Fax 505-345-4107 505-345-3975 Fax 505-345-4107 	9081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS PCRA 8 Metals P20 (YOA) P260 (VOA) P260 (VOA) P2	
490 Té	LPH:8015D(GRO / DRO / MRO)	
Turn-Around Time: Standard Rush day Project Name: Siebert #1 Project #: 01E-01340	Project Manager: MONICA PUPPIN Sampler: MJP On Ice: Preservative No Cooler Temp(metaling CF): 3.0 - 3.3 (°C) Container Preservative HEAL No. Tune and # Tune	Iype and # Iype = 100 - 100 U 0.2 1.0L - 001 v U 0.2 1.0L - 001 v I 0.2 1.0L - 001 v I 0.2 1.0L - 003 v I 0.03 - 003 v v Received by: Via: Date Time R Received by: Via: Date Time R Received by: Via: Date Time R
Chain-of-Custody Record Client: Vurtux Mailing Address: Phone #:	email or Fax#: QA/QC Package: Calidation: Candard Candard Candard Candard Candard Candard Candard Candariance Candidation) Accreditation: Candard Can	5/3 7:45 Soil BH21-18 0-0.5 5/3 7:45 Soil BH21-18 0-0.5 10:00 U BH21-19 01 10:10 U BH21-30 01 10:10 U BH21-30 01 110 Elinquished by: 5 Mail 1910 UUUNINUE

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April 04, 2024

CHANCE DIXON VERTEX RESOURCE GROUP 420 SOUTH MAIN, SUITE 202 TULSA, OK 74103

RE: SIEBERT #1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 01 0' (H241626-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13·	4						
Surrogate: 1-Chlorooctadecane	86.7 9	<i>49.1-14</i>	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	VERTEX R	ESOURCE GI	ROUP	
	CHANCE D	DIXON		
	420 SOUT	H MAIN, SU	TE 202	
	TULSA OK	, 74103		
	Fax To:	NA		
120/2024			Compling D	ato.

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 01 1' (H241626-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	87.8 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 02 0' (H241626-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	102 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 %	6 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	VERTEX RESOURCE GROUP	
	CHANCE DIXON	
	420 SOUTH MAIN, SUITE 202	
	TULSA OK, 74103	
	Fax To: NA	
03/28/2024	Sampling Date:	

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 02 1' (H241626-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	78.8 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	VERTEX RESOURCE G	ROUP
	CHANCE DIXON	
	420 SOUTH MAIN, SU	ITE 202
	TULSA OK, 74103	
	Fax To: NA	
02/20/2024		Compling Data

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 03 0' (H241626-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93 .8 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	77.0 \$	48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 03 1' (H241626-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	77.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5 %	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	VERTEX RESOURCE GROUP
	CHANCE DIXON
	420 SOUTH MAIN, SUITE 202
	TULSA OK, 74103
	Fax To: NA
03/28/2024	Sampling Date:

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 04 0' (H241626-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 %	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 04 1' (H241626-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	68.8 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.1 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	VERTEX RESOURCE GROUP
	CHANCE DIXON
	420 SOUTH MAIN, SUITE 202
	TULSA OK, 74103
	Fax To: NA
02/20/2024	Sampling Data

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 05 0' (H241626-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	81.5 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4 %	6 49.1-14	8						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP
CHANCE DIXON
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103
Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 05 1' (H241626-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	89.5	48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VEI	RTEX RESOURCE GROUP	
CH	ANCE DIXON	
420) SOUTH MAIN, SUITE 202	
TU	LSA OK, 74103	
Fax	To: NA	

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 06 0' (H241626-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	81.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RES	OURCE GROUP
CHANCE DIX	ON
420 SOUTH	MAIN, SUITE 202
TULSA OK, 7	/4103
Fax To:	NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 06 1' (H241626-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	84.8 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

120 1202 4			Course line De	
	Fax To:	NA		
	TULSA OK	, 74103		
	420 SOUT	H MAIN, SUIT	E 202	
	CHANCE D	DIXON		
	VERTEX R	ESOURCE GRO	JUP	

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 07 0' (H241626-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.69	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	89.4 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 07 1' (H241626-14)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	6.94	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	82.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX R	ESOURCE GR	OUP	
CHANCE D	DIXON		
420 SOUT	H MAIN, SUIT	E 202	
TULSA OK	, 74103		
Fax To:	NA		

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 08 0' (H241626-15)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	77.3 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	03/28/2024	Sampling Date:	03/26/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	SIEBERT #1	Sampling Condition:	Cool & Intact
Project Number:	23E-	Sample Received By:	Tamara Oldaker
Project Location:	BTA - CARLSBAD		

Sample ID: BH 24 - 08 1' (H241626-16)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.18	109	2.00	3.94	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	4.07	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.08	104	2.00	3.99	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.04	101	6.00	4.16	
Total BTEX	<0.300	0.300	04/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					
Surrogate: 1-Chlorooctane	81.2 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 172 of 181

ARDINA

Received by OCD: 4/17/2024 11:14:03 AM



Page 19 of 20

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Re

Delivered By: (Circle (Sampler - UPS - Bus -	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Dama analysies. All claims including those service. In no event shall Cardinal b affiliates or successors arising out of affiliates.	DI EAGE NOTE: I lability and Damas	16 3	15 8	14 20 44	UN CO	11 53	Lab I.D.	Sampler Name:	Project Location:	Project Name: 5	Project #:	Phone #:	City:	Address: On	Project Manager: C	Company Name:
One) Observed Temp. °C Other: Corrected Temp. °C	Date: Time:	Date: 3/28/2	gres. Cardonals liability and clients exclusive termedy to a for negligence and any other cause whatsoever shall be to liable for incidental or consequental damages, including or related to the centormance of services herelinder	ne frederin in lability of chinese and taking and the second states	1 80-424	10 20-hzh	HZH-02 1,	1 90-424	H24-06 0'	Sample I.D.	hance Dixon	arisbad	10000 #1	Project Owner	Fax #:	State:	File	hance Dixon	Urtex/ BTA
Coop Intact Coop Intact Yes Yes	Received By:	Received By:	rny clasm ansing whether based in contract or tor, deerned walved unless made in writing and receiv without limitation, business interruptions, loss of andiral rectardless of whether such claim is base		1 1			-	1- 5	(C)RAS OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER OIL SLUDGE OTHER :	Fax	Ph	Sta	r. Cit	Ad	Zip: Att	Co	P.(
(Initials) CHECKED BY: Turnaroun (Initials) Correction	Mayer REMARK	Verbal Re All Results	shall be imnited to the annount paid by the cleent to wed by Cardinal within 30 days after completion of 1 use, or loss of profils incurred by client, its subaidia dupon any of the above stated reasons or otherwise dupon any of the above stated reasons or otherwise.		1 10:15	10:10	20:01	55:4	V 3/26 9:50	ACID/BASE: TRESERV.	C#:	one #:	ite: Zip:	y:	dress: on trill	" Kelton Beald	mpany: 874	D. #:	BILL TO
nd Time: Standard P Bacteria (only) Sample Condition ariD #140 Sector 0°C Se	S Direct Bill BTA	sult: Diver No Add'I Phone #: s are emailed. Please provide Email address:	the applicable inles.							BTEX C	30	21	1						ANALYSIS REQUEST

Page 20 of 20

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

QUESTIONS

Action 334360

QUESTIONS						
Operator:	OGRID:					
BTA OIL PRODUCERS, LLC	260297					
104 S Pecos	Action Number:					
Midland, TX 79701	334360					
	Action Type:					
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)					

QUESTIONS Droroguioitoo

rielequisites	
Incident ID (n#)	nAPP2111646040
Incident Name	NAPP2111646040 SIEBERT #1 PRODUCTION FACILITY @ 30-015-26322
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-26322] SIEBERT #001

Location of Release Source

Please answer all the questions in this group.	
Site Name	SIEBERT #1 PRODUCTION FACILITY
Date Release Discovered	04/24/2021
Surface Owner	Private

Incident Details

Please	answer	all	the	auestions	in	this	aroup.	

Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Cause: Equipment Failure | Separator | Crude Oil | Released: 10 BBL | Recovered: 5 BBL | Crude Oil Released (bbls) Details Lost: 5 BBL Produced Water Released (bbls) Details Not answered. Is the concentration of chloride in the produced water >10,000 mg/l Not answered. Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. A broken sight glass on the heater treater allowed approximately 6 barrels of crude oil to be released into the secondary containment of the production facility and released an additional Are there additional details for the questions above (i.e. any answer containing 4 barrels of crude oil by a spray that spread onto adjacent private property and onto a home, Other, Specify, Unknown, and/or Fire, or any negative lost amounts) several outbuildings, several vehicles, and a fishpond. Five barrels of free oil has been recovered, the top portion of the fishpond was skimmed with a vacuum truck and soap & pressure washing was performed on the home, out buildings and vehicle.

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

QUESTIONS, Page 2

Action 334360

QUESTIONS (continued)	
Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	334360
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of vvaluation in the follow-up C-141 submission.
I hereby certify that the information given above is true and complete to the best of my later to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA VERTEX Title: Environmental Manager

Email: kbeaird@btaoil.com Date: 04/17/2024

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 St Francis Dr Santa Fe NM 87505

1220 0. 011 14100 01., 04114 1 0, 1411 0100
Phone:(505) 476-3470 Fax:(505) 476-3462

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Page 176 of 181

QUESTIONS, Page 3

Action 334360

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	334360
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 100 and 200 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 500 and 1000 (ft.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 18000 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 19700 GRO+DRO (EPA SW-846 Method 8015M) 14500 BTEX (EPA SW-846 Method 8021B or 8260B) 96.1 (EPA SW-846 Method 8021B or 8260B) Benzene 0.1 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation On what estimated date will the remediation commence 04/28/2021 On what date will (or did) the final sampling or liner inspection occur 08/03/2023 On what date will (or was) the remediation complete(d) 08/03/2023 What is the estimated surface area (in square feet) that will be reclaimed 4870 What is the estimated volume (in cubic yards) that will be reclaimed 310 What is the estimated surface area (in square feet) that will be remediated 4870 What is the estimated volume (in cubic yards) that will be remediated 310

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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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

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QUESTIONS, Page 4

Action 334360

QUESTI	QUESTIONS (continued)		
Operator:	OGRID:		
BTA OIL PRODUCERS, LLC	260297		
Midland. TX 79701	Action Number: 334360		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		
QUESTIONS			
Remediation Plan (continued)			
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:		
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for off-site disposal	Not answered.		
OR which OCD approved well (API) will be used for off-site disposal	30-015-26322 SIEBERT #001		
OR is the off-site disposal site, to be used, out-of-state	Not answered.		
OR is the off-site disposal site, to be used, an NMED facility	Not answered.		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	Not answered.		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA		
I hereby certify that the information given above is true and complete to the best of my later port and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: BTA VERTEX Title: Environmental Manager Email: kbeaird@btaoil.com		

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

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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

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Page 178 of 181

Action 334360

QUESTIONS (continued)	
Operator: BTA OIL PRODUCERS, LLC	OGRID: 260297
104 S Pecos Midland, TX 79701	Action Number: 334360
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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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

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QUESTIONS, Page 6

Action 334360

QUESTIONS (continued)	
Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	334360
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	325813
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2024
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	3200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4870
What was the total volume (cubic yards) remediated	310
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4870
What was the total volume (in cubic yards) reclaimed	310
Summarize any additional remediation activities not included by answers (above)	The closure report includes delineation activities to address the closure denial that was issued on February 7, 2024.
The responsible party must attach information demonstrating they have complied with all applicable comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field , final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	losure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
h han a bar a said a dha dha dha dha an air an air an a bar a dha an an dha ann a bha dha dha dha dha dha dha d	
In nerecy certing that the information given above is true and complete to the best of my to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor local laws and/or regulations. The responsible party acknowledges they must substanti prior to the release or their final land use in accordance with 19.15.29.13 NMAC includi	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
	Name: BTA VERTEX

I hereby agree and sign off to the above statement	Name: BTA VERTEX Title: Environmental Manager Email: kbeaird@btaoil.com Date: 04/17/2024
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QUESTIONS, Page 7

Action 334360

Page 180 of 181

QUESTIONS (continued) Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 334360 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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CONDITIONS

Page 181 of 181

CONDITIONS

Action 334360

Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 334360 Action Type:

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/13/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/13/2024