Oil Conservation Division

	Page 1 of 433
Incident ID	nAPP2213024415
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must	be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the line must be notified 2 days prior to liner inspection)	r integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC District of	ffice must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to the be and regulations all operators are required to report and/or file certain release n may endanger public health or the environment. The acceptance of a C-141 re should their operations have failed to adequately investigate and remediate con human health or the environment. In addition, OCD acceptance of a C-141 re compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions th accordance with 19.15.29.13 NMAC including notification to the OCD when	otifications and perform corrective actions for releases which eport by the OCD does not relieve the operator of liability ntamination that pose a threat to groundwater, surface water, port does not relieve the operator of responsibility for e responsible party acknowledges they must substantially at existed prior to the release or their final land use in
	ment Professional
Signature: Dale Woodall Date:	10/19/2022
email:dale.wodall@dvn.com Telephone:	575-7481838
OCD Only	
Received by: <u>Robert Hamlet</u> D	ate: <u>11/22/2022</u>
Closure approval by the OCD does not relieve the responsible party of liability remediate contamination that poses a threat to groundwater, surface water, hum party of compliance with any other federal, state, or local laws and/or regulated	an health, or the environment nor does not relieve the responsible
Closure Approved by: <u>Robert Hamlet</u>	Date: 11/22/2022
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

Oil Conservation Division

	Page 2 of 433
Incident ID	nAPP2213024415
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
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: Dale Woodall Title: Environment Professional Signature: Dale Woodall Date: 10/19/2022 email: dale.wodall@dvn.com Telephone: 575-7481838		
OCD Only		
Received by: Date:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: Date:		
Printed Name: Title:		



September 26, 2022,

Vertex Project #: 22E-01720

Prenared For:	Devon Energy Production Company		
	Incident ID: nAPP2213024415, nAPP2116441032		
	County: Eddy		
	API: N/A		
	Unit E, Section 29, Township 19 South, Range 29 East		
Spill Closure Report:	Onyx 29 CTB 1		

 Prepared For:
 Devon Energy Production Company

 6488 Seven Rivers Highway
 Artesia, New Mexico 88210

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

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Closure for multiple produced water releases at Onyx 29 CTB 1 (hereafter referred to as "Onyx"). Devon submitted an initial C-141 Release Notification (Attachment 1) for both releases to the New Mexico Oil Conservation Division (NMOCD) District 2 on June 30, 2021, and June 2, 2022. Incident ID numbers nAPP2213024415 and nAPP2116441032 were assigned to the incidents.

This letter provides a description of each release assessment and remediation activities that 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 NMOCD for the closure of these releases. This is with the understanding that restoration of the release sites will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 of NMAC.

Incident Descriptions

nAPP2113024415

The release for nAPP2113024415 occurred on the south side of the location when a recirculating line on the oil tanks developed a leak. The fluid traveled southeast and southwest of the oil tanks and stopped on the pad. The horizontal extent of the release was approximately 300 feet long. 28.3 barrels of oil and produced water were released. After the release, a hydrovac was brought on-site to recover the fluids. Approximately eight barrels of the fluids were recovered. No oil or produced water was released into waterways.

nAPP2116441032

The release for nAPP2116441032 occurred on the north side of Onyx when a water line near the heater treaters developed a leak. The fluid traveled west approximately 125 feet and stopped at the middle of the pad. The leak resulted in the release of nine and a half barrels of produced water. After the release, a hydrovac was brought on-site to recover vertex.ca

the fluids. Approximately one barrel of the fluids was recovered. No produced water was released into waterways.

Site Characterization

The releases at Devon's Onyx site occurred on state land at 32.634740° N, 104.102030° W, approximately 16.4 miles northeast of Carlsbad, New Mexico The legal description for the site is Unit E, Section 29, Township 19 South, Range 29 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland.

Onyx 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 areas on the east side of the constructed pad where the heater treaters and separators are located (Attachment 2).

The nearest active well to Onyx is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 1.62 miles southwest of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from 2013 shows the NMOSE well had a depth to groundwater of 75 feet below the ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 3.

The surrounding landscape is associated with ridges, plains, and hills with elevations ranging between 1,250 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 10 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be tobosa, black grama, and blue grama. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, 2021). Limited to no vegetation is allowed to grow on the compacted production pad, right of way, and access road.

The Geological Map of New Mexico indicates the surface geology at Onyx is comprised primarily of Qp – Piedmont alluvial deposits from the Holocene to lower Pleistocene ages (The New Mexico Bureau of Geology and Mineral Resources, 2022). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Reeves and Gypsum Land Complex. The soil is well-drained with a high runoff. The karst geology potential for Onyx is high (United States Department of the Interior, Bureau of Land Management, 2022).

There is no surface water located at Onyx. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 12.9 miles west of the site. At Onyx, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) 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.

Based on the data included in the closure criteria determination worksheet, the releases at Onyx are subject to the

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Page 5 of 433

requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The release areas are within a high potential for karst geology; therefore, the closure criteria for the incident will assume NMOCD's strictest criteria and are determined to be associated with the following constituent concentration limits.

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

Remedial Actions

On May 23, 2022, Devon contracted Vertex to complete release delineation and remediation at Onyx through field screening procedures, oversight of the remediation fieldwork, and final confirmatory sampling. The initial spill inspection and site characterization activities at Onyx were completed by Vertex between May 23 and May 25, 2022. The Daily Field Reports and Daily Soil Sampling Reports associated with the visits are included in Attachment 4. The extent of the south release near the separators and oil tanks (nAPP2116441032) was determined to be approximately 9,705 square feet. The extent of the north release near the heater treaters (nAPP2213024415) was determined to be approximately 1,775 square feet. Initial characterization sample locations for both releases are presented in Figure 1 and Figure 4 (Attachment 2) and laboratory results are presented in Table 1 and Table 4 (Attachment 6).

During excavation and following the completion of excavation activities from August 4 to August 31, 2022, Vertex provided three 48-hour notifications of continuous confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The releases were remediated horizontally and vertically with a Vertex representative on-site to conduct field screening procedures. The final square footage for the south excavation was 9,222 square feet. The final square footage for the north release near the heater treaters was 4,224 square feet. On August 31, 2022, excavation was completed with approximately 3,520 total cubic yards excavated and hauled to R360.

On August 9 through August 26, 2022, Vertex collected a total of 65 five-point composite confirmatory samples from the base and the sidewalls of the south excavation, at depths ranging between 1 and 8 feet bgs. On August 29 through August 31, 2022, Vertex collected a total of 33 five-point composite confirmatory samples from the base and sidewalls of the north excavation, at depths ranging between 1 and 4 feet bgs. 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, which does not require prior NMOCD approval. 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. Confirmation sample locations for both releases are presented in Figure 2 and Figure 5 (Attachment 2) and laboratory results are presented in Table 3 and Table 6 (Attachment 6).

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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 MRO, DRO, and GRO. Confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system unit was used to map the approximate center of each of the five-point composite samples.

On September 7, 2022, backfill was completed for both releases. Approximately 3,520 cubic yards of clean, uncontaminated soil were obtained from Devon and the landowner for this purpose.

Closure Request

Vertex recommends no additional remediation action to address the releases at Onyx. Laboratory analyses of confirmatory samples collected at Onyx show final values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors at the release site.

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 these incidents (nAPP2213024415 and nAPP2116441032) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments are 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 releases at Onyx.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or KStallings@vertex.ca.

Chance Dixon

9/26/2022

Chance Dixon, B.Sc. SR. ENVIRONMENTAL TECHNICIAN, REPORTING

Date

Kent Stallings

9/26/2022

Kent Stallings, P.G. PROJECT MANAGER, REPORT REVIEW

Date

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Attachments

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

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References

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Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company. 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 Devon. 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 professionals 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 judgment of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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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 Page 11 of 433

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude	
Lanude	

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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		

	1 480 14 01 40	~
Incident ID		
District RP		
Facility ID		
Application ID		

Page 12 of 433

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

Initial Response

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

The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:	Title:
Signature: Kendra Ruiz	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Page 2

Page	13	01	f 433

Spil	Volume(B	bis) Calculator		
	Inputs in blue, Outputs in red			
Con	taminated So	oil measurement		
Area (squa	re feet)	Depth(inches)		
1971.3	<u>68</u>	0.500		
Cubic Feet of S	oil Impacted	82.232		
Barrels of Soi	I Impacted	14.66		
Soil T	Contraction of the part of the second	Clay/Sand		
Barrels of Oil 100% Sate		2.20		
Saturation	Fluid prese	ent with shovel/backhoe		
Estimated Ba Relea	rrels of Oil	2.20		
	Free Standing	g Fluid Only		
Area (squa	are feet)	Depth(inches)		
1973.568		0.250		
Standin	gfluid	7.329		
Total fluids spilled		<u>9.528</u>		

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 **Page 14 of 433**

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID	
Contact Name	Contact Telephone	
Contact email	Incident # (assigned by OCD)	
Contact mailing address		

Location of Release Source

T atituda	
Latitude	

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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		

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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Printed Name:	Title:
Signature: <u>Kendra DeHoyos</u>	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>7/6/2021</u>

NAPP2116441032

Spill	Volume(E	Bbls) Calculator				
Inp	Inputs in blue, Outputs in red					
Cont	aminated S	Soil measurement				
Area (squar	e feet)	Depth(inches)				
9167		0.250				
Cubic Feet of So	il Impacted	<u>190.979</u>				
Barrels of Soil	Impacted	<u>34.04</u>				
Soil Ty	pe	Clay/Sand				
Barrels of Oil Assuming 100% Saturation		<u>5.11</u>				
Saturation Fluid pre		sent with shovel/backhoe				
Estimated Barr Release	and a second second	5.11				
	Free Standing Fluid Only					
Area (squar	e feet)	Depth(inches)				
6271.836		0.250				
Standing	fluid	<u>23.291</u>				
Total fluids	<u>spilled</u>	<u>28.398</u>				

ATTACHMENT 2

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nAPP2116441032)

CTB

29



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CTB



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29 CTB 1.mxd





ATTACHMENT 3

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	riteria Worksheet		
	e: Onyx 29 CTB 1	×. 22 (24722	V. 104 102005
Spill Coor	ific Conditions	X: 32.634723 Value	Y: -104.102095 Unit
1	Depth to Groundwater	75	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	67,944	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	33,422	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	13,726	feet
5	 i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 	13,532	feet
	ii) Within 1000 feet of any fresh water well or spring	13,532	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,468	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	High	Critical High Medium Low
10	Within a 100-year Floodplain	Area of Minimal Flood Hazard	year
11	Soil Type	Reeves- Gypsum land Complex	
12	Ecological Classification	Loamy	
13	Geology	Qp	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Onyx PWU 29 CTB 1



5/17/2022, 9:48:30 AM

OSE District Boundary Override 1

GIS WATERS PODs New Mexico State Trust Lands SiteBoundaries

Both Estates

• Active Subsurface Estate

Released to Imaging: 11/22/2022 2:01:52 PM



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Onyx PWU 29 CTB 1



5/17/2022, 9:44:57 AM



Subsurface Estate

New Mexico State Trust Lands SiteBoundaries

Pending

OSE District Boundary Both Estates



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New Mexico Office of the State Engineer Point of Diversion Summary

			(quarter	s are 1=N	W 2=]	NE 3=SV	W 4=SE)			
			(quarte	ers are sm	allest t	o larges	t)	(NAD83 UT	'M in meters)	
Well Tag	POD	Number	Q64 Q	Q16 Q4	Sec	Tws	Rng	Χ	Y	
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WATER RIGHT SUMMARY

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0.5 mile radius Nearest USGS Well: 323845104075601 DTGW: 124 feet Distance: 1.96 miles Latest Reading: 1999

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LegendPage 29 of 433SolutionCircle MeasureFeature 1Onyx PWU 29 CTB 1

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3000 ft



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS	Water	Resources	

Data	Category:	
Gro	undwater	

Geographic Area: United States

GO

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Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 323845104075601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323845104075601 19S.28E.24.32233

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°38'45", Longitude 104°07'56" NAD27 Land-surface elevation 3,352 feet above NAVD88 This well is completed in the Other aguifers (N9999OTHER) national aguifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-05-17 11:57:58 EDT 0.58 0.49 nadww01



National Wetlands Inventory

Onyx PWU 29 CTB 1 Watercourse



May 17, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

Lake Other Riverine

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

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

National Wetlands Inventory

Onyx PWU 29 CTB 1 Lakebed



May 17, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

Freshwater Emergent Wetland

Lake Other Riverine

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Page 33 of 433





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS	Water	Resources	

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Data Category

Geographic Area: United States

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- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 324000104073601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324000104073601 19S.28E.13.214411

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011

Latitude 32°39'56.2", Longitude 104°07'35.9" NAD83

Land-surface elevation 3,372 feet above NAVD88

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-05-17 12:23:40 EDT 0.56 0.46 nadww01




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 Page 37 of 433

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Nearest Town: Carlsbad, NM Distance: 16.49 miles (87,049 feet)

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 Page 38 of 433

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U.S. Fish and Wildlife Service

National Wetlands Inventory

Onyx PWU 29 CTB 1 Wetlands



May 17, 2022

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.

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Coal Mines in New Mexico







Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, OpenStreetMap contributors, and the GIS User Community







Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020 104°5'49"W 32°37'50"N Ational Flood Hazard Layer FIRMette 1:6,000 AREA OF MINIMAL FLOOD HAZARD Feet 35015C0625D eff.6/4/2010 2,000 Zdoe 1,500 1,000 Eddy County 350120 500 250

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National Cooperative Soil Survey

5/16/2022 Page 1 of 3



Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	11.1	100.0%
Totals for Area of Interest		11.1	100.0%



Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 190 to 235 days Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent Gypsum land: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: B Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent Ecological site: R042XC033NM - Salty Bottomland Hydric soil rating: No

Reagan

Percent of map unit: 5 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021



USDA Natural Resources Conservation Service

Ecological site R042XC007NM Loamy

Accessed: 04/12/2022

General information



Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Landforms	(1) Plain(2) Terrace(3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft
Slope	0–5%
Aspect	E, S, W

Table 2. Representative physiographic features

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest in January through June rapidly drying out the soil during a critical time for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate. The Atoka, Reeves, Russler, Milner soils may have highr amounts of CaC03, ranging as high as 40 percent in the subsoil. Rock fragments range fro 5 to 50 percent in the subsoil. Reeves, Rusler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic) Bigetty Reagan Reakor Reeves (gypsum) Russler (gypsum) Largo Russler (gypsum) Largo Berino Tinney Midessa Ratliff Holloman (gypsum) Milner (gypsum)

Table 4. Representative soil features

Surface texture	(1) Loam(2) Very fine sandy loam(3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)



Ia. Soil drying, overgrazing, drought, soil surface sealing. Ib. Restore natural overland flow, increase infiltration, prescribed grazing.

2a. Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.

3a. Lack of fire, overgrazing, hall storms or other physical disturbance, drought. 3b. Prescribed fire, brush control, prescribed grazing.

4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.

5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.

6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

Figure 4.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Climax Plant Community Grassland:

The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of

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perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed.

Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances.

Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush.

Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	650	925	1200

Table 5. Annual production by plant type

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 6. Plant community growth curve (percent production by month).

NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm Season Plant Community..

	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ſ	0	0	0	5	10	10	25	30	15	5	0	0

State 2 Burrograss-Grassland

Community 2.1 Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated.

Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss.

Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5

Key indicators of approach to transition:

- ? Diversion of overland flow resulting in decreased soil moisture.
- ? Increase in amount of burrograss cover
- ? Reduction in grass cover and increase in size and frequency of bare patches.
- ? Formation of physical crusts-indicating reduced infiltration.
- ? Evidence of litter movement—indicating loss or redistribution of organic matter.

Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3 Bare State

Community 3.1 Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades.

Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active.

Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely

depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration.

Key indicators of approach to transition:

- ? Continued reduction in grass cover.
- ? Increased soil surface sealing.
- ? Increased erosion.
- ? Reduced aggregate stability in bare areas.

Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4 Grass/Succulent Mix

Community 4.1 Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss.

Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species.

Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.1 Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.3 During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.4

Key indicators of approach to transition:

- ? Decrease or change in distribution of grass cover.
- ? Increase in amount of succulent seedlings.
- ? Increased cover of succulents.

Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.2 Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5 Shrub Dominated

Community 5.1 Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced.

Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils.

Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings.

Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition.

Key indicators of approach to transition:

- ? Decreased grass and litter cover.
- ? Increased bare patch size.
- ? Increased physical soil crusts.
- ? Increased amount of mesquite, creosotebush, or tarbush seedlings.
- ? Increased shrub cover.

Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment.

Transition to Bare State (6): If grass cover on the shrub-dominated state is severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful.

Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

				Annual Production	Foliar	1
Group	Common Name	Symbol	Scientific Name	(Lb/Acre)	Cover (%)	
^	/O					1

Gras	s/Grasslike				
1	Warm Season			278–324	
	tobosagrass	PLMU3	Pleuraphis mutica	278–324	_
2	Warm Season		•	9–46	
	burrograss	SCBR2	Scleropogon brevifolius	9–46	_
3	Warm Season		•	231–278	
	black grama	BOER4	Bouteloua eriopoda	231–278	_
	blue grama	BOGR2	Bouteloua gracilis	231–278	_
4	Warm Season			28–46	
	sideoats grama	BOCU	Bouteloua curtipendula	28–46	_
5	Warm Season			46–93	
	bush muhly	MUPO2	Muhlenbergia porteri	46–93	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	46–93	_
6	Warm Season	•	•	9–28	
	Arizona cottontop	DICA8	Digitaria californica	9–28	_
7	Warm Season	•	•	46–93	
	threeawn	ARIST	Aristida	46–93	_
	muhly	MUHLE	Muhlenbergia	46–93	_
	sand dropseed	SPCR	Sporobolus cryptandrus	46–93	_
8	Warm Season		•	28–46	
	Graminoid (grass or grass-like)	2GRAM	Graminoid (grass or grass-like)	28–46	_
Shru	b/Vine		•	I I	
9	Shrub			9–28	
	fourwing saltbush	ATCA2	Atriplex canescens	9–28	_
	jointfir	EPHED	Ephedra	9–28	_
	winterfat	KRLA2	Krascheninnikovia lanata	9–28	_
	cane bluestem	BOBA3	Bothriochloa barbinodis	5–24	_
	Arizona cottontop	DICA8	Digitaria californica	5–24	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	5–24	_
10	Shrub			9–28	
	javelina bush	COER5	Condalia ericoides	9–28	_
	broom snakeweed	GUSA2	Gutierrezia sarothrae	9–28	_
	Grass, annual	2GA	Grass, annual	5–15	_
11	Shrubs			9–28	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	9–28	_
Forb			•		
12	Forb			9–46	
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	9–46	
	globemallow	SPHAE	Sphaeralcea	9–46	
	verbena	VEPO4	Verbena polystachya	9–46	_
	broom snakeweed	GUSA2	Gutierrezia sarothrae	5–15	_
	pricklypear	OPUNT	Opuntia	5–15	_
10	Forb		•	9–28	
13	FOID			5 20	

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	woolly groundsel	PACA15	Packera cana	9–28	-
14	Forb			9–28	
	Goodding's tansyaster	MAPIG2	Machaeranthera pinnatifida ssp. gooddingii var. gooddingii	9–28	_
	woolly paperflower	PSTA	Psilostrophe tagetina	9–28	_
15	Forb			9–28	
	redstem stork's bill	ERCI6	Erodium cicutarium	9–28	-
	Texas stork's bill	ERTE13	Erodium texanum	9–28	_
16	Forb			9–28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass- like)	9–28	_

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip shake.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations Soil Series Hydrologic Group Atoka C Bigetty B Ratliff B Reyab B Holloman B Largo B Holloman B Bigetty B Berino B Reagan B Reakor B Reeves B Russler C

Recreational uses

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

Wood products

This site has no potential for wood products

Other products

This site is suitable for grazing by all kinds and classes of livestock, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely

dominate the site. Creosotebush, mesquite, and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 3.0 - 4.2

75 - 51 4.1 - 5.5 50 - 26 5.3 - 7.0 25 - 0 7.1 +

Inventory data references

Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County Lea County and Chavez County.

Other references

Literature References:

1. Brooks, M.L., AND D.A. Pyke. 2001. Invasive plants and fire in the deserts of North America. Pages 1–14 in K.E.M. Galley and T.P. Wilson (eds.). Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species.

2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. J. Range. Manage. 33: 85-88.

3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.

4. Vallentine, J.F. 1989. Range Developments and Improvements. 3rd Edition. Academic Press. San Diego, California.

5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: http://www.statlab.iastate.edu/survey/SQI/range.html

Contributors

David Trujillo Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

- 1. Number and extent of rills:
- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:
- 6. Extent of wind scoured, blowouts and/or depositional areas:
- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):

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12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

Additional:

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
- 14. Average percent litter cover (%) and depth (in):
- 15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annualproduction):
- 16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
- 17. Perennial plant reproductive capability:

Onyx 29 CTB 1/Figure G Geology (Onyx 29 CTB 1).mxd

-01720 -



Onyx 29 CTB 1/Figure G Geology (Onyx 29 CTB 1).mxd

-01720 -



ATTACHMENT 4

VERTEX

Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/24/2022			
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	5/24/2022 10:13 PM			
Client Contact Name:	Wes Matthews	API #:				
Client Contact Phone #:	(575) 748-0176	_				
Unique Project ID		– Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	5/24/2022 8:20 AM					
Departed Site	5/24/2022 3:00 PM					

Field Notes

8:41 Arrived on site to delineate release near the separators (nAPP2116441032)

11:34 Collected BH22-01 through BH22-12 at surface and 2' for horizontal and vertical delineation.

11:35 BH22-02, BH22-03, BH22-06, BH22-08, and BH22-10 are above criteria at 2' and require further vertical delineation. BH22-02, BH22-10, and BH22-12 need to be stepped out.

13:58 BH22-02 and BH22-10 are vertically delineated at 4'.

BH22-03 and BH22-08 hit refusal at 5'. BH22-08 is vertically delineated there.

BH22-06 is vertically delineated at 6'

Next Steps & Recommendations

1 Continue delineation tomorrow



Site Photos Viewing Direction: Northwest Viewing Direction: Northeast R. 5. 15. 1 5. Release area Release area Viewing Direction: Northeast Viewing Direction: Northeast Sample area for BH22-01 Release area



Page 66 of 433







Sample area for BH22-12



Daily Site Visit Signature

Inspector: Chance Dixon	$\overline{}$
Signature:	C i i
8	Signature

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Client:	Devon Energy Corporation	Inspection Date:	8/15/2022			
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/15/2022 10:06 PM			
Client Contact Name:	Wes Matthews	API #:				
Client Contact Phone #:	(575) 748-0176					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	8/15/2022 8:15 AM					
Departed Site	8/15/2022 2:30 PM					

Field Notes

- 11:21 Arrived on site to continue excavation and confirmation sampling.
- **11:22** Collected BES22-15 through BES22-22 and WES22-26 through WES22-32 on the west trench. All are clean on all field screening and will be sent to lab for analysis.
- **11:47** Contractors are beginning to connect the excavations where the underground lines are. They are marking 2' away with the excavator. The rest will need to be done by hand
- 12:25 Brice with Devon was on site earlier.
 - We discussed how to address the wall against the separator that is still hot.
 - He said it was okay to scratch at it by hand when the hand crew is able to get out here and get more samples.
- **12:26** Collected WES22-33 and WES22-34 at the west side of the 6' excavation near the underground water line. Samples are clean on all field screening at 2' and 4'
- 12:29 All clean samples will be sent to lab for analysis
- 13:57 BES22-14 was collected at 8'. Clean on all field screening.

Next Steps & Recommendations

Run on 8/15/2022 10:06 PM UTC

1 Send samples to lab for analysis



Run on 8/15/2022 10:06 PM UTC

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Released to Imaging: 11/22/2022 2:01:52 PM







Page 72 of 433




Page 73 of 433





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Signature:

Signature

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Client:	Devon Energy Corporation	Inspection Date:	9/8/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	9/8/2022 5:16 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	9/8/2022 8:45 AM		
Departed Site	9/8/2022 10:00 AM		

Field Notes

8:53 Arrived on site to record backfill for phase 1.

8:53 Phase 1 is completely backfilled and should be ready for closure.

Next Steps & Recommendations

1 Complete closure report and submit to client



Site Photos Viewing Direction: Northeast Viewing Direction: North Phase 1 backfilled. Southwest side Middle of phase 1 backfilled Viewing Direction: Northeast Viewing Direction: East Hand excavation of phase 1 between the oil Hand excavation backfilled tanks and separator backfilled

Run on 9/8/2022 5:16 PM UTC







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Signature:	Signature

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Client:	Devon Energy Corporation	Inspection Date:	8/29/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/29/2022 9:06 PM
Client Contact Name:	Wes Matthews		
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		– Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	8/29/2022 9:30 AM		
Departed Site	8/29/2022 1:30 PM		

Field Notes

11:40 Arrived on site to begin confirmation sampling for phase 2

11:41 Collected BES22-01 through BES22-03 and WES22-01 through WES22-08 in the 1' hand excavation around the heater treater. All were clean on all field screening and will be sent to lab.

11:42 BES22-03 and WES22-05 through WES22-08 were collected in the small 4' excavation that was hot during delineation.

Next Steps & Recommendations

1 Continue confirmation tomorrow when the excavation is further



Site Photos Viewing Direction: Northeast Viewing Direction: Northeast Sample area for WES22-01 and WES22-02 Sample area for WES22-03 under pipelines Viewing Direction: Southeast Viewing Direction: Northeast Sample area for WES22-04 Sample area for BES22-01

Run on 8/29/2022 9:06 PM UTC





Sample area for BES22-02



Sample area for BES22-03 and WES22-05 through WES22-08



Current excavation and sample area

Run on 8/29/2022 9:06 PM UTC



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Signature: Signature

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Client:	Devon Energy Corporation	Inspection Date:	8/30/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/30/2022 10:32 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	8/30/2022 10:00 AM		
Departed Site	8/30/2022 3:00 PM		

Field Notes

12:56 Arrived on site to continue confirmation for phase 2.

10:21 Operator is still working to excavate the marked area. Will wait to grab samples when he is further ahead and I can get in safely

11:35 Another 480v line was discovered during excavation.

It was just west of the lines that were marked. This one was not marked. It was not struck, just uncovered. One call is up to date and Devon rep has been notified.

Line is sleeved with 3" schedule 80 PVC

- **13:33** Brice with Devon is on site to check the status of the excavation
- **13:37** Collected WES22-09 through WES22-12 and BES22-04 through BES22-07 in the 2' excavation west of the heater treater. All except BES22-04 are clean on all field screening. It will be excavated down to 4'

13:45 All clean samples have been jarred and put on ice to send to lab

Next Steps & Recommendations

1 Continue excavation and confirmation sampling tomorrow



Site Photos Viewing Direction: West Viewing Direction: North Electric line discovered Electric line discovered Viewing Direction: Southwest Viewing Direction: Southwest Sample area for BES22-04 through BES22-07 Sample area for BES22-04 to be excavated down







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Inspector: Chance Dixon

Signature: Signature

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Devon Energy Corporation	Inspection Date:	8/31/2022
Onyx 29 CTB 1	Report Run Date:	8/31/2022 8:17 PM
Wes Matthews	API #:	
(575) 748-0176		
	Project Owner:	
	Project Manager:	
	Summary of	Times
8/31/2022 8:50 AM		
8/31/2022 12:00 PM		
	Corporation Onyx 29 CTB 1 Wes Matthews (575) 748-0176 8/31/2022 8:50 AM	CorporationReport Run Date:Onyx 29 CTB 1Report Run Date:Wes MatthewsAPI #:(575) 748-0176Project Owner:Project Owner:Project Manager:Summary of 8/31/2022 8:50 AM

Field Notes

10:30 Arrived on site to continue confirmation sampling.

10:31 Collected WES22-13 through WES22-17 and BES22-08 through BES22-11 in the trench trending to the west. All are clean on all field screening and ready to send to lab

10:32 Collected BES22-04 at 4', WES22-09, and WES22-18 through WES22-21 for the walls inside the excavation near the heater treater. This was to ensure contaminants did not migrate from BES22-04.All samples are clean on all field screening.

Next Steps & Recommendations

1 Send samples to lab for analysis



Site Photos Viewing Direction: East Viewing Direction: Northeast Sample area for BES22-04, WES22-09, and Sample area for WES22-21 WES22-18 through WES22-20 Viewing Direction: West Viewing Direction: Northwest Sample area for BES22-08 through BES22-11 Sample area for WES22-13 and WES22-15

Run on 8/31/2022 8:17 PM UTC







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Signature:	CD
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Client:	Devon Energy Corporation	Inspection Date:	9/8/2022						
Site Location Name:	Onyx 29 CTB 1	- Report Run Date:	9/8/2022 5:15 PM						
Client Contact Name:	Wes Matthews	– API #:							
Client Contact Phone #:	(575) 748-0176	-							
Unique Project ID		– Project Owner:							
Project Reference #		Project Manager:							
		Summary of	Times						
Arrived at Site	9/8/2022 8:45 AM								
Departed Site	9/8/2022 10:00 AM								
	Field Notes								

9:16 On site to record backfill for phase 2

9:16 Site is completely backfilled and ready for closure

Next Steps & Recommendations

1 Complete closure report and submit to client



Site Photos Viewing Direction: Northeast Viewing Direction: North Hand excavation around heater treaters East side of heater treaters backfilled backfilled Viewing Direction: Southeast Viewing Direction: West Hand excavation around heater treaters Phase 2 backfilled completely backfilled

Run on 9/8/2022 5:15 PM UTC





Phase 2 backfilled



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: Signature

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ATTACHMENT 5



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Onyx 29 CTB 1

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us> Cc: dale.woodall@dvn.com Mon, Aug 8, 2022 at 1:36 PM

All,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following releases:

nAPP2116441032 ONYX 29 CTB 1 and nAPP2213024415 ONYX 29 CTB 1

On Wednesday, August 9, 2022, at approximately 2:00 p.m., Chance Dixon will be on-site to conduct confirmation sampling. The sampling will continue through Friday August 19, 2022. He can be reached at 575-988-1472. If you need directions to the site, please do not hesitate to contact him. If you have any questions regarding this notification, please call Kent Stallings at 346-814-1413.

Thank you,

Kent Stallings P.G.

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

P 575.725.5001 C 346.814.1413

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us> Fri, Aug 19, 2022 at 8:58 AM

All,

Vertex respectfully requests that confirmation sampling for this location be extended to Friday, August 26, 2022.

If you have any questions or concerns regarding this notification, please call Kent Stallings at 346-814-1413.

Thank you,

Chance Dixon B.Sc. Senior Environmental Technician

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220 **C 575.988.1472** [Quoted text hidden]

 Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
 Fri, Aug 19, 2022 at 9:06 AM

 To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
 Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@state.nm.us>

Chance

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

Thanks,

Jennifer Nobui

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com> Sent: Friday, August 19, 2022 8:58 AM To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us> Subject: [EXTERNAL] Re: Onyx 29 CTB 1

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us> Fri, Aug 26, 2022 at 7:38 AM

All,

Vertex respectfully requests that confirmation sampling for both of these releases be extended to Friday, September 2, 2022. If you have any questions or concerns, please do not hesitate to contact us.

Thank you,

Chance Dixon B.Sc. Senior Environmental Technician

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

C 575.988.1472

[Quoted text hidden]

ATTACHMENT 6

Client Name: Devon Energy Production Company Site Name: Onyx 29 CTB 1 NMOCD Tracking #: nAPP2213024415 Project #: 22E-01720-01 Lab Report: 2205A92

	Table	e 2. Initial Charac	terization	Sample Fi	eld Screer	n and Labo	ratory Res	sults - Dep	th to Grou	undwater ·	<50 feet b	gs	
Si	ample Descri	ption	Fi	eld Screeni	ng			Petrole	eum Hydrod	arbons			
			s			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
		= 100 10000	(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	5/23/2022	0	23	540	ND	ND	ND	ND	ND	ND	ND	ND
BH22-01	2	5/23/2022	0	20	202	•	-	-	-	-	-	-	-
BH22-02	0	5/23/2022	0	101	537	ND	ND	ND	ND	ND	ND	ND	200
BH22-02	2	5/23/2022	0	24	320	-	-	-	-	-	-	-	-
BH22-03	0	5/23/2022	0	104	6,795	ND	ND	ND	ND	ND	ND	ND	45000
BH22-03	2	5/23/2022	0	80	537	ND	ND	ND	ND	ND	ND	ND	550
BH22-03	4	5/23/2022	0	35	195	-	-	-	-	-	-	-	-
BH22-04	0	5/23/2022	0	35	542	ND	ND	ND	ND	ND	ND	ND	110
BH22-04	2	5/23/2022	0	41	292	-	-	-	-	-	-	-	-
BH22-05	0	5/23/2022	0	41	542	ND	ND	ND	ND	ND	ND	ND	1400
BH22-05	2	5/23/2022	0	14	280	-	-	-	-	-	-	-	-
BH22-06	0	5/23/2022	0	55	5,298	ND	ND	ND	ND	ND	ND	ND	7700
BH22-06	2	5/23/2022	0	47	550	ND	ND	ND	ND	ND	ND	ND	730
BH22-06	4	5/23/2022	0	30	312	-	-	-	-	-	-	-	-
BH22-07	0	5/23/2022	0	38	397	ND	ND	ND	ND	ND	ND	ND	89
BH22-07	2	5/23/2022	0	31	490	-	-	-	-	-	-	-	-
BH22-08	0	5/23/2022	0	102	590	ND	ND	ND	15	ND	15	15	ND
BH22-08	2	5/23/2022	0	33	295	-	-	-	-	-	-	-	-

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

Client Name: Devon Energy Production Company Site Name: Onyx 29 CTB 1 (Phase 1) NM OCD Tracking #: nAPP2213024415 Project #: 22E-01720-001 Lab Report(sX): 2208802, 2208875, 2208917, 2208A05, 2208A84, 2208A82, 2208C61

	Т	able 3. Confirma	tory Samp	le Field Sc	reen and	Laborator	y Results -	Depth to	Groundwa	ater <50 fe	et bgs		
S	ample Descrip	otion	Fi	eld Screeni	ng			Petrole	um Hydro				
			sbi			Vola	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	 Extractable Organic Compounds (PetroFlag) 	(mdd) (mde Concentration	euezue Beuzeue (mg/kg)) BTEX (Total) (6)	영 Gasoline Range Organics (영 (GRO)	월 Diesel Range Organics 영(DRO)	ଞ୍ଚି Motor Oil Range Organics କ୍ରି (MRO)	(ORO + DRO) (mg/kg)	표 Total Petroleum (중) Hydrocarbons (TPH)	(mg/gg) (hloride Concentration
BES22-01	4	8/17/2022	0	-	540	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	5	8/17/2022	0	-	410	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	4	8/10/2022	0	-	-	ND	ND	ND	ND	ND	ND	ND	210
BES22-04	4	8/9/2022	0	50	290	ND	ND	ND	ND	ND	ND	ND	130
BES22-05	5	8/17/2022	0	-	421	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06	4	8/17/2022	0	-	473	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	4	8/17/2022	0	-	398	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	89
BES22-09	8	8/18/2022	0	-	378	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	8	8/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	6	8/11/2022	0	103	382	ND	ND	ND	ND	ND	ND	ND	110
BES22-12	6	8/11/2022	0	96	475	ND	ND	ND	ND	ND	ND	ND	ND 07
BES22-13	6	8/11/2022	0	46	330	ND	ND	ND	ND	ND	ND	ND	97
BES22-14	8	8/15/2022	0	88	456	ND	ND	ND	ND	ND	ND	ND	80
BES22-15	4	8/15/2022	0	26	405	ND	ND	ND	ND	ND	ND	ND	200
BES22-16	4	8/15/2022	0	41	355	ND	ND	ND	ND	ND	ND	ND	460
BES22-17	4	8/15/2022	0	63	257	ND	ND	ND	ND	ND	ND	ND	83
BES22-18	4	8/15/2022	0	28	280	ND	ND	ND	ND	ND	ND	ND	64
BES22-19	4	8/15/2022	0	30	637	ND	ND	ND	ND	ND	ND	ND	260
BES22-20	4	8/15/2022	0	34	347 345	ND	ND	ND	ND ND	ND	ND	ND ND	130
BES22-21	4	8/15/2022	0	18		ND	ND	ND		ND	ND		85
BES22-22	4	8/15/2022	0	10	342	ND	ND	ND	ND	ND	ND	ND ND	110 ND
BES22-23	1	8/26/2022	-	55	550	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 520
WES22-03	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	450
WES22-04	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	450 87
WES22-05 WES22-12	2	8/10/2022 8/11/2022	0	28	550	ND	ND	ND	ND	ND	ND	ND	ND
WES22-12 WES22-12	4	8/11/2022	0	46	512	ND	ND	ND	ND	ND	ND	ND	190
WES22-12 WES22-13	2	8/11/2022	0	28	335	ND	ND	ND	ND	ND	ND	ND	ND
WES22-13	4	8/11/2022	0	16	307	ND	ND	ND	ND	ND	ND	ND	ND
WES22-14	2	8/11/2022	0	74	602	ND	ND	ND	ND	ND	ND	ND	160
WES22-14	4	8/11/2022	0	33	545	ND	ND	ND	ND	ND	ND	ND	170
WES22-15	2	8/11/2022	0	39	435	ND	ND	ND	ND	ND	ND	ND	ND
WES22-15	4	8/11/2022	0	46	205	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	2	8/11/2022	0	60	479	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	4	8/11/2022	0	70	591	ND	ND	ND	ND	ND	ND	ND	100
WES22-17	2	8/11/2022	0	95	281	ND	ND	ND	ND	ND	ND	ND	ND
WES22-17	4	8/11/2022	0	110	270	ND	ND	ND	ND	ND	ND	ND	ND
WES22-19	2	8/12/2022	0	49	467	ND	ND	ND	ND	ND	ND	ND	140
WES22-21	2	8/12/2022	0	93	350	ND	ND	ND	ND	ND	ND	ND	100
WES22-25	2	8/12/2022	0	39	275	ND	ND	ND	ND	ND	ND	ND	120
WES22-26	2	8/15/2022	0	-	322	ND	ND	ND	ND	ND	ND	ND	140
WES22-27	2	8/15/2022	0	-	565	ND	ND	ND	ND	ND	ND	ND	68
WES22-28	2	8/15/2022	0	-	397	ND	ND	ND	ND	ND	ND	ND	ND
WES22-29	2	8/15/2022	0	-	375	ND	ND	ND	ND	ND	ND	ND	ND
WES22-30	2	8/15/2022	0	-	395	ND	ND	ND	ND	ND	ND	ND	150
WES22-31	2	8/15/2022	0	-	377	ND	ND	ND	ND	ND	ND	ND	71
WES22-32	2	8/15/2022	0	-	370	ND	ND	ND	ND	ND	ND	ND	120
WES22-33	2	8/15/2022	0	-	462	ND	ND	ND	ND	ND	ND	ND	ND
WES22-33	4	8/15/2022	0	-	409	ND	ND	ND	ND	ND	ND	ND	ND
WES22-34	2	8/15/2022	0	-	395	ND	ND	ND	ND	ND	ND	ND	ND
WES22-34	4	8/15/2022	0	-	356	ND	ND	ND	ND	ND	ND	ND	ND



WES22-35	2	8/16/2022	0	-	428	ND	
WES22-36	1	8/16/2022	0	-	582	ND	
WES22-37	1	8/16/2022	0	-	572	ND	
WES22-38	2	8/16/2022	0	-	1,258	ND	190
WES22-40	2	8/16/2022	0	-	385	ND	220
WES22-41	2	8/17/2022	0	-	272	ND	
WES22-42	2	8/17/2022	0	-	482	ND	
WES22-43	2	8/17/2022	0	-	395	ND	
WES22-44	2	8/17/2022	0	-	214	ND	
WES22-45	3	8/26/2022	0	29	345	ND	
WES22-46	3	8/26/2022	0	74	310	ND	
WES22-47	3	8/26/2022	0	9	315	ND	
WES22-48	3	8/26/2022	0	33	361	ND	
WES22-49	1	8/26/2022	0	23	425	ND	
WES22-50	0.5	8/26/2022	0	93	452	ND	

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



Client Name: Devon Energy Production Company Site Name: Onyx 29 CTB 1 (Phase 1) NM OCD Tracking #: nAPP2213024415 Project #: 22E-01720-001 Lab Report(sX): 2208802, 2208875, 2208917, 2208A05, 2208A84, 2208A82, 2208C61

		Table 4. Exca	vation Fie	ld Screen	and Labor	ratory Res	ults - Dept	th to Grou	ndwater <	50 feet bg	s		
S	ample Descrip			eld Screeni					eum Hydro				
			ds			Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	 Extractable Organic Compounds (PetroFlag) 	(mdd) (mdd) (mdd)	euezueg Beuzeue (mg/kg)	(mg/kg)	명 Gasoline Range Organics (GRO)	Ba Diesel Range Organics (DRO)	a) Motor Oil Range Organics (MRO)	(OXO + DKO) (mg/kg)	표 Total Petroleum (전 Hydrocarbons (TPH)	ଅ) ନୁମ୍ପ Chloride Concentration (ସିନ୍ଧୁ
BES22-01	2	8/4/2022	0	27	587	-	-	-	-	-	-	-	-
BES22-01	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	760
BES22-01	4	8/17/2022	0	-	540	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	2	8/4/2022	0	32	480	-	-	-	-	-	-	-	-
BES22-02	4	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	620
BES22-02	5	8/17/2022	0	-	410	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	2	8/8/2022	0	-	3,940	-	-	-	-	-	-	-	-
BES22-03	4	8/8/2022	0	37	155	-	-	-	-	-	-	-	-
BES22-03	4	8/10/2022	0	-	-	ND	ND	ND	ND	ND	ND	ND	210
BES22-04	2	8/8/2022	0	- 50	2,367 290	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 130
BES22-04 BES22-05	4	8/9/2022 8/8/2022	0	- 50	290 2,613	ND -	-	ND -	-	-	-	-	-
BES22-05 BES22-05	4	8/8/2022	0	- 83	477	-	-		-	-	-	-	-
BES22-05	4	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	1200
BES22-05	5	8/17/2022	0	-	421	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06	2	8/8/2022	0	64	362								
BES22-06	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	810
BES22-06	4	8/17/2022	0	-	473	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	2	8/8/2022	0	66	125	-	-	-	-	-	-	-	-
BES22-07	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	970
BES22-07	4	8/17/2022	0	-	398	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2	8/8/2022	0	25	508	-	-	-	-	-	-	-	-
BES22-08	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	89
BES22-09	6	8/11/2022	0	29	595	ND	ND	ND	25	ND	25	25	1600
BES22-09	8	8/18/2022	0	-	378	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	6	8/11/2022	0	51	610	ND	ND	ND	100	62	100	162	1800
BES22-10	8	8/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	6	8/11/2022	0	103	382 475	ND	ND	ND ND	ND	ND	ND ND	ND	110 ND
BES22-12	6	8/11/2022	0	96 46	330	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND 97
BES22-13	6 6	8/11/2022	0	40	2,170	ND -	-	ND -	-	-	-	ND	-
BES22-14 BES22-14	8	8/11/2022 8/15/2022	0	- 88	456	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 80
BES22-14 BES22-15	4	8/15/2022	0	26	405	ND	ND	ND	ND	ND	ND	ND	200
BES22-15	4	8/15/2022	0	41	355	ND	ND	ND	ND	ND	ND	ND	460
BES22-17	4	8/15/2022	0	63	257	ND	ND	ND	ND	ND	ND	ND	83
BES22-18	4	8/15/2022	0	28	280	ND	ND	ND	ND	ND	ND	ND	64
BES22-19	4	8/15/2022	0	30	637	ND	ND	ND	ND	ND	ND	ND	260
BES22-20	4	8/15/2022	0	34	347	ND	ND	ND	ND	ND	ND	ND	130
BES22-21	4	8/15/2022	0	18	345	ND	ND	ND	ND	ND	ND	ND	85
BES22-22	4	8/15/2022	0	10	342	ND	ND	ND	ND	ND	ND	ND	110
BES22-23	1	8/26/2022	0	55	550	ND	ND	ND	ND	ND	ND	ND	ND
WES22-01	1	8/4/2022	0	88	220	-	-	-	-	-	-	-	-
WES22-01	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	1300
WES22-02	1	8/4/2022	0	41	225	-	-	-	-	-	-	-	-
WES22-02	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	760
WES22-03	1	8/4/2022	0	68	280	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 520
WES22-03	1	8/10/2022				UNI	UN	טא	טא	UN	טא	טא	520
WES22-04	1	8/4/2022	0	- 55	277	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 450
WES22-04 WES22-05	1	8/10/2022 8/4/2022	0	- 35	- 346		-	-	-	-	-		
WES22-05	2	8/10/2022	-	-	- 540	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 87
WES22-03	1	8/8/2022	0	-	8,345	-	-	-	-	-	-	-	-
		0, 0, 2022		1	.,	1	1	1	1	1	1	ı I	I I



WES22-07	1	8/8/2022	0	76	45								
WES22-07 WES22-07	2	8/10/2022	-	- 70	45	- ND	2800						
WES22-07	1	8/8/2022	0	-	1,380	-		ND	110	110			2000
WES22-08	1	8/8/2022	0	90	445								
WES22-09	1	8/10/2022	-	- 90	- 445	ND	ND	ND	- ND	- ND	- ND	- ND	760
WES22-09	1	8/8/2022	0	_	7,292								700
WES22-10 WES22-11		8/8/2022	0	0	263	_	-	_	_	_	_	_	_
	1		0	0	205	- ND	1100						
WES22-11 WES22-12	2	8/10/2022 8/11/2022	0	28	550	ND							
	4		0	46	512	ND	190						
WES22-12 WES22-13		8/11/2022	0					ND			ND		ND
	2 4	8/11/2022	0	28 16	335 307	ND ND	ND						
WES22-13		8/11/2022	-										
WES22-14	2	8/11/2022	0	74 33	602 545	ND ND	160 170						
WES22-14	4	8/11/2022											-
WES22-15	2	8/11/2022	0	39 46	435 205	ND ND							
WES22-15	4	8/11/2022	-	-									
WES22-16	2	8/11/2022	0	60 70	479 591	ND ND	ND 100						
WES22-16	4	8/11/2022	-										
WES22-17	2	8/11/2022	0	95	281 270	ND							
WES22-17	4	8/11/2022	0	110	1,487	ND							
WES22-18	2	8/12/2022	0	-	-	-	-	-	-	-	-	- ND	-
WES22-19	2	8/12/2022		49	467	ND	ND	ND	ND	ND	ND		140
WES22-20	2	8/12/2022	0	-	1,357	-	-	-	-	-	-	-	-
WES22-21	2	8/12/2022	0	93	350	ND	100						
WES22-22	2	8/12/2022	0	-	1,505	-	-	-	-	-	-	-	-
WES22-23	2	8/12/2022	0	-	925	-	-	-	-	-	-	-	-
WES22-24	2	8/12/2022	0	-	1,147	-	-	-	-	-	-	-	-
WES22-25	2	8/12/2022	0	39	275	ND	120						
WES22-26	2	8/15/2022	0	-	322	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	140 68
WES22-27	2	8/15/2022	0	-	565 397	ND ND	ND		ND ND	ND		ND ND	68 ND
WES22-28	2	8/15/2022	-	-			ND	ND		ND	ND		
WES22-29	2	8/15/2022	0	-	375	ND	ND 150						
WES22-30	2	8/15/2022	0	-	395	ND	150						
WES22-31	2	8/15/2022	0	-	377	ND	71						
WES22-32	2	8/15/2022	0	-	370	ND	120						
WES22-33	2	8/15/2022	0	-	462	ND							
WES22-33	4	8/15/2022	0	-	409	ND							
WES22-34	2	8/15/2022	0	-	395	ND							
WES22-34	4	8/15/2022	0	-	356	ND							
WES22-35	2	8/16/2022	0	-	428	ND							
WES22-36	1	8/16/2022	0	-	582	ND	ND	ND	ND 10	ND	ND 10	ND 10	ND
WES22-37	1	8/16/2022	0	-	572	ND	ND	ND	19 ND	ND	19	19 ND	ND
WES22-38	2	8/16/2022	0	-	1,258	ND	190						
WES22-39	2	8/16/2022	0	-	1,595	-	-	-	-	-	-	-	-
WES22-40	2	8/16/2022	0	-	385	ND	220						
WES22-41	2	8/17/2022	0	-	272	ND							
WES22-42	2	8/17/2022	0	-	482	ND							
WES22-43	2	8/17/2022	0	-	395	ND							
WES22-44	2	8/17/2022	0	-	214	ND							
WES22-45	3	8/26/2022	0	29	345	ND							
WES22-46	3	8/26/2022	0	74	310	ND							
WES22-47	3	8/26/2022	0	9	315	ND							
WES22-48	3	8/26/2022	0	33	361	ND							
WES22-49	1	8/26/2022	0	23	425	ND							
WES22-50	0.5	8/26/2022	0	93	452	ND							

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



Client Name: Devon Energy Production Company Site Name: Onyx 29 CTB 1 NMOCD Tracking #: nAPP2116441032 Project #: 22E-01720-02 Lab Reports: 2205B74, 2205C48

	Table	e 5. Initial Charact	erization	erization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs									
Si	Fie	eld Screeni	ng										
			ds			Vol	atile		Inorganic				
Sample ID	Depth (ft)	Sample Date	(PID) Volatile Organic Compounds	면 Extractable Organic ③ Compounds (PetroFlag)	() () () () () () () () () () () () () (Benzene (mg/kg)) (8월) (10tal)	ଇଥି Gasoline Range Organics ଅନୁ (GRO)	ଅନ୍ଥି ଅଧି Diesel Range Organics ଅନୁ (DRO)	ଞ୍ଚି Motor Oil Range Organics ଅନୁ (MRO)	(OXO + OXO) (mg/kg)	ଞ୍ଚି Total Petroleum କ୍ରି Hydrocarbons (TPH)	ය) (ක්/සි (ක්/සි
BH22-01	0	5/24/2022	0	34	325	ND	ND	ND	20	ND	20	20	ND
BH22-01	2	5/24/2022	0	18	317	-	-	-	-	-	-	-	-
BH22-02	0	5/24/2022	0	37	3,362	ND	ND	ND	ND	ND	ND	ND	5400
BH22-02	2	5/24/2022	0	24	2,637	ND	ND	ND	ND	ND	ND	ND	2700
BH22-02 BH22-02	4	5/24/2022	0	36	360	ND	ND	ND	ND	ND	ND	ND	260
BH22-03	0	5/24/2022	0	2,000	4,560	ND	ND	ND	4100	2400	4100	6500	5500
BH22-03	2	5/24/2022	0	112	4,032	ND	ND	ND	240	140	240	380	3700
BH22-03	4	5/24/2022	0	488	1,467	-	-	-	-	-	-	-	-
BH22-03	5	5/24/2022	0	220	600	ND	ND	ND	480	460	480	940	640
BH22-04	0	5/24/2022	0	37	395	ND	ND	ND	12	ND	12	12	98
BH22-04	2	5/24/2022	0	13	300	-	-	-	-	-	-	-	-
BH22-05	0	5/24/2022	0	11	232	ND	ND	ND	29	ND	29	29	73
BH22-05	2	5/24/2022	0	19	387	-	-	-	-	-	-	-	-
BH22-06	0	5/24/2022	0	68	3,781	ND	ND	ND	17	ND	17	17	5000
BH22-06	2	5/24/2022	0	76	2,337	ND	ND	ND	ND	ND	ND	ND	4500
BH22-06	4	5/24/2022	0	66	817	-	-	-	-	-	-	-	-
BH22-06	6	5/24/2022	0	29	525	ND	ND	ND	ND	ND	ND	ND	120
BH22-07	0	5/24/2022	0	43	480	ND	ND	ND	ND	ND	ND	ND	100
BH22-07	2	5/24/2022	0	67	495	-	-	-	-	-	-	-	-
BH22-08	0	5/24/2022	0	2,000	1,125	ND	ND	ND	7100	4700	7100	11800	1300
BH22-08	2	5/24/2022	0	105	3,855	ND	ND	ND	76	72	76	148	4700
BH22-08	4	5/24/2022	0	102	977	-	-	-	-	-	-	-	-
BH22-08	5	5/24/2022	0	50	600	ND	ND	ND	120	120	120	240	720
BH22-09	0	5/24/2022	0	96	572	ND	ND	ND	16	ND	16	16	370
BH22-09	2	5/24/2022	0	58	477	-	-	-	-	-	-	-	-
BH22-10	0	5/24/2022	0	343	4,280	ND	ND	ND	390	370	390	760	20000
BH22-10	2	5/24/2022	0	123	4,400	ND	ND	ND	49	ND	49	49	7200
BH22-10	3	5/24/2022	0	48	585	ND	ND	ND	ND	ND	ND	ND	430
BH22-11	0	5/24/2022	0	25 14	370 310	ND -	ND -	ND -	ND -	ND -	ND -	ND -	230
BH22-11		5/24/2022	0						- ND				
BH22-12	0	5/24/2022	0	111 17	2,098 585	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	17000 230
BH22-12 BH22-13	0	5/24/2022 5/25/2022	0	146	328	ND	ND	ND	31	52	31	83	250
BH22-13 BH22-13	2	5/25/2022	0	28	328 440	ND	ND	ND	ND	ND	ND ND	ND	250
BH22-13 BH22-14	0	5/25/2022	0	114	160	ND	ND	ND	23	ND	23	23	70
BH22-14 BH22-14	2	5/25/2022	0	31	415	-	-	-	-	-	-	-	-
BH22-15	0	5/25/2022	0	56	158	ND	ND	ND	ND	ND	ND	ND	120
BH22-15	2	5/25/2022	0	21	180	-	-	-	-	-	-	-	-
BH22-16	0	5/25/2022	0	25	93	ND	ND	ND	ND	ND	ND	ND	ND
BH22-16	2	5/25/2022	0	38	135	-	-	-	-	-	-	-	-
BH22-17	0	5/25/2022	0	38	118	ND	ND	ND	ND	ND	ND	ND	ND
BH22-17	2	5/25/2022	0	6	78	-	-	-	-	-	-	-	-
	-	-,, 2022							1	1			

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



Client Name: Devon Energy Production Company Site Name: Onyx 29 CTB 1 Phase 2 NM OCD Tracking #: nAPP2116441032 Project #: 22E-01720-001 Lab Report(sX): 2208102, 2208167, 2209087

							Laboratory Results - Depth to Groundwater <50 feet bgs							
S	Field Screening					Petrole								
			ds			Vola	atile			Extractable	9		Inorganic	
Sample ID	Depth (ft)	Sample Date	(PID) (PID)	Extractable Organic 3 Compounds (PetroFlag)	() (mdd) (md	euezue Beuzeu (mg/kg)	ୁଅ) ଅନୁ (ସ୍ଥ	ଞ୍ଚ Gasoline Range Organics ଅନ୍ଧ (GRO)	ଞ୍ଚି Diesel Range Organics ଅନ୍ଧି (DRO)	a) Motor Oil Range Organics ((MRO)	(GRO + DRO) (mg/kg)	편 Total Petroleum (중 Hydrocarbons (TPH)	(mg/kg)	
BES22-01	1	8/29/2022	0	56	529	ND	ND	ND	ND	ND	ND	ND	97	
BES22-02	1	8/29/2022	0	69	228	ND	ND	ND	ND	ND	ND	ND	77	
BES22-03	4	8/29/2022	0	72	472	ND	ND	ND	ND	ND	ND	ND	110	
BES22-04	2	8/30/2022	0	31	3,552	-	-	-	-	-	-	-	-	
BES22-04	4	8/31/2022	0	92	372	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-05	2	8/30/2022	0	48	547	ND	ND	ND	ND	ND	ND	ND	110	
BES22-06	2	8/30/2022	0	27	437	ND	ND	ND	ND	ND	ND	ND	120	
BES22-07	2	8/30/2022	0	60	470	ND	ND	ND	ND	ND	ND	ND	110	
BES22-08	2	8/31/2022	0	71	480	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-09	2	8/31/2022	0	110	375	ND	ND	ND	ND	ND	ND	ND	62	
BES22-10	2	8/31/2022	0	102	280	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-11	2	8/31/2022	0	34	71	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-01	0.5	8/29/2022	0	56	346	ND	ND	ND	ND	ND	ND	ND	110	
WES22-02	0.5	8/29/2022	0	41	510	ND	ND	ND	ND	ND	ND	ND	110	
WES22-03	0.5	8/29/2022	0	28	469	ND	ND	ND	ND	ND	ND	ND	190	
WES22-04	0.5	8/29/2022	0	26	425	ND	ND	ND	ND	ND	ND	ND	170	
WES22-05	2	8/29/2022	0	61	367	ND	ND	ND	ND	ND	ND	ND	150	
WES22-06	2	8/29/2022	0	90	257	ND	ND	ND	ND	ND	ND	ND	180	
WES22-07	2	8/29/2022	0	80	402	ND	ND	ND	ND	ND	ND	ND	290	
WES22-08	2	8/29/2022	0	50	380	ND	ND	ND	ND	ND	ND	ND	270	
WES22-09	1	8/30/2022	0	74	532	ND	ND	ND	ND	ND	ND	ND	180	
WES22-09	2	8/31/2022	0	28	321	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-10	1	8/30/2022	0	72	430	ND	ND	ND	ND	ND	ND	ND	130	
WES22-11	1	8/30/2022	0	10	452	ND	ND	ND	ND	ND	ND	ND	110	
WES22-12	1	8/30/2022	0	18	360	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-13	1	8/31/2022	0	20	395	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-14	1	8/31/2022	0	18	437	ND	ND	ND	ND	ND	ND	ND	65	
WES22-15	1	8/31/2022	0	25	317	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-16	1	8/31/2022	0	55	225	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-17	1	8/31/2022	0	48	280	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-18	2	8/31/2022	0	99	389	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-19	3	8/31/2022	0	55	345	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-20	3	8/31/2022	0	72	456	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-21	1.5	8/31/2022	0	43	220	ND	ND	ND	ND	ND	ND	ND	ND	

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



ATTACHMENT 7



June 06, 2022

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

RE: Onyx 29 CTB 1

OrderNo.: 2205A92

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2205A92

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-01 0' **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 9:00:00 AM Lab ID: 2205A92-001 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** ND 8.9 mg/Kg 1 5/27/2022 4:51:36 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 5/27/2022 4:51:36 PM Surr: DNOP 82.5 51.1-141 %Rec 1 5/27/2022 4:51:36 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 5/31/2022 9:09:06 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 5/26/2022 9:46:31 PM Benzene mg/Kg 1 Toluene ND 5/26/2022 9:46:31 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 5/26/2022 9:46:31 PM Xylenes, Total ND 0.10 mg/Kg 1 5/26/2022 9:46:31 PM Surr: 1,2-Dichloroethane-d4 105 %Rec 5/26/2022 9:46:31 PM 70-130 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/26/2022 9:46:31 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/26/2022 9:46:31 PM 113 Surr: Toluene-d8 101 70-130 %Rec 1 5/26/2022 9:46:31 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/26/2022 9:46:31 PM 5.0 1 Surr: BFB 108 70-130 %Rec 1 5/26/2022 9:46:31 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 14
Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-02 0' **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 9:10:00 AM Lab ID: 2205A92-002 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/27/2022 5:02:29 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/27/2022 5:02:29 PM Surr: DNOP 71.6 51.1-141 %Rec 1 5/27/2022 5:02:29 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 200 60 5/31/2022 9:46:20 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 5/26/2022 10:15:00 PM Benzene mg/Kg 1 Toluene ND 5/26/2022 10:15:00 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 5/26/2022 10:15:00 PM Xylenes, Total ND 0.095 mg/Kg 1 5/26/2022 10:15:00 PM Surr: 1,2-Dichloroethane-d4 101 70-130 %Rec 5/26/2022 10:15:00 PM 1 Surr: 4-Bromofluorobenzene 97.8 70-130 %Rec 1 5/26/2022 10:15:00 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/26/2022 10:15:00 PM 112 Surr: Toluene-d8 99.5 70-130 %Rec 1 5/26/2022 10:15:00 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/26/2022 10:15:00 PM 48 1 Surr: BFB 108 70-130 %Rec 1 5/26/2022 10:15:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 0 **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 9:20:00 AM Lab ID: 2205A92-003 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/27/2022 5:13:19 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/27/2022 5:13:19 PM Surr: DNOP 92.8 51.1-141 %Rec 1 5/27/2022 5:13:19 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 45000 1500 6/2/2022 11:54:14 AM mg/Kg 500 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 5/26/2022 10:43:31 PM Benzene mg/Kg 1 Toluene ND 5/26/2022 10:43:31 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 5/26/2022 10:43:31 PM Xylenes, Total ND 0.10 mg/Kg 1 5/26/2022 10:43:31 PM Surr: 1,2-Dichloroethane-d4 98.5 %Rec 5/26/2022 10:43:31 PM 70-130 1 Surr: 4-Bromofluorobenzene 99.3 70-130 %Rec 1 5/26/2022 10:43:31 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/26/2022 10:43:31 PM 111 Surr: Toluene-d8 101 70-130 %Rec 1 5/26/2022 10:43:31 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/26/2022 10:43:31 PM 5.0 1 Surr: BFB 109 70-130 %Rec 1 5/26/2022 10:43:31 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 2' **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 9:30:00 AM Lab ID: 2205A92-004 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/27/2022 5:24:09 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/27/2022 5:24:09 PM Surr: DNOP 104 51.1-141 %Rec 1 5/27/2022 5:24:09 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 550 60 5/31/2022 10:11:09 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 5/27/2022 1:06:40 AM Benzene mg/Kg 1 Toluene ND 5/27/2022 1:06:40 AM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 5/27/2022 1:06:40 AM Xylenes, Total ND 0.10 mg/Kg 1 5/27/2022 1:06:40 AM Surr: 1,2-Dichloroethane-d4 96.0 %Rec 5/27/2022 1:06:40 AM 70-130 1 Surr: 4-Bromofluorobenzene 96.0 70-130 %Rec 1 5/27/2022 1:06:40 AM Surr: Dibromofluoromethane 108 70-130 %Rec 1 5/27/2022 1:06:40 AM Surr: Toluene-d8 99.7 70-130 %Rec 1 5/27/2022 1:06:40 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 1:06:40 AM 5.0 1 Surr: BFB 107 70-130 %Rec 1 5/27/2022 1:06:40 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 14

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205A92

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2022 Client Sample ID: BH22-04 0'

Project:	Onyx 29 CTB 1		Collecti	on Date:	5/23/2	022 9:40:00 AM
Lab ID:	2205A92-005	Matrix: SOIL	Receiv	ed Date:	5/25/2	022 7:15:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
EPA MET	HOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: JME
Diesel Ra	ange Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 5:34:57 PM
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 5:34:57 PM
Surr: [NOP	81.7	51.1-141	%Rec	1	5/27/2022 5:34:57 PM
EPA ME	HOD 300.0: ANIONS					Analyst: JMT
Chloride		110	60	mg/Kg	20	5/31/2022 10:23:34 PM
EPA ME	HOD 8260B: VOLATILES SH	IORT LIST				Analyst: JR
Benzene		ND	0.024	mg/Kg	1	5/27/2022 1:35:23 AM
Toluene		ND	0.049	mg/Kg	1	5/27/2022 1:35:23 AM
Ethylben	zene	ND	0.049	mg/Kg	1	5/27/2022 1:35:23 AM
Xylenes,	Total	ND	0.097	mg/Kg	1	5/27/2022 1:35:23 AM
Surr: 1	,2-Dichloroethane-d4	101	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: 4	-Bromofluorobenzene	98.4	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: [Dibromofluoromethane	109	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: 1	oluene-d8	100	70-130	%Rec	1	5/27/2022 1:35:23 AM
EPA ME	HOD 8015D MOD: GASOLIN	NE RANGE				Analyst: JR
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 1:35:23 AM
Surr: E	BFB	110	70-130	%Rec	1	5/27/2022 1:35:23 AM

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

Qualifiers:

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

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

Page 5 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 0 **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 9:50:00 AM Lab ID: 2205A92-006 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/27/2022 5:45:51 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/27/2022 5:45:51 PM Surr: DNOP 82.5 51.1-141 %Rec 1 5/27/2022 5:45:51 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1400 60 5/31/2022 10:35:58 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 5/27/2022 2:03:54 AM Benzene ND mg/Kg 1 Toluene ND 5/27/2022 2:03:54 AM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 5/27/2022 2:03:54 AM Xylenes, Total ND 0.098 mg/Kg 1 5/27/2022 2:03:54 AM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 5/27/2022 2:03:54 AM 1 Surr: 4-Bromofluorobenzene 97.8 70-130 %Rec 1 5/27/2022 2:03:54 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 2:03:54 AM 110 Surr: Toluene-d8 100 70-130 %Rec 1 5/27/2022 2:03:54 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 2:03:54 AM 49 1 Surr: BFB 109 70-130 %Rec 1 5/27/2022 2:03:54 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 14

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB 1

2205A92-007

Analytical Report Lab Order 2205A92

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2022 Client Sample ID: BH22-06 0' Collection Date: 5/23/2022 10:00:00 AM

Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qua	ul Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 5:56:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 5:56:48 PM
Surr: DNOP	92.5	51.1-141	%Rec	1	5/27/2022 5:56:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	7700	300	mg/Kg	100	6/2/2022 5:35:08 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 2:32:20 AM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 2:32:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 2:32:20 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 2:32:20 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: Toluene-d8	99.3	70-130	%Rec	1	5/27/2022 2:32:20 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 2:32:20 AM
Surr: BFB	106	70-130	%Rec	1	5/27/2022 2:32:20 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 14

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB 1

2205A92-008

Analytical Report Lab Order 2205A92

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2022 Client Sample ID: BH22-06 2' Collection Date: 5/23/2022 10:10:00 AM

Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 6:07:50 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2022 6:07:50 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 6:07:50 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	730	60	mg/Kg	20	5/31/2022 11:25:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 3:00:45 AM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 3:00:45 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 3:00:45 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 3:00:45 AM
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: Toluene-d8	99.6	70-130	%Rec	1	5/27/2022 3:00:45 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 3:00:45 AM
Surr: BFB	113	70-130	%Rec	1	5/27/2022 3:00:45 AM

Matrix: SOIL

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

Qualifiers:

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

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

Page 8 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-07 0' **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 10:20:00 AM Lab ID: 2205A92-009 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 5/27/2022 6:18:52 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/27/2022 6:18:52 PM Surr: DNOP 75.9 51.1-141 %Rec 1 5/27/2022 6:18:52 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 59 5/31/2022 11:37:58 PM 89 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 5/27/2022 3:29:26 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/27/2022 3:29:26 AM Ethylbenzene ND 0.047 mg/Kg 1 5/27/2022 3:29:26 AM Xylenes, Total ND 0.094 mg/Kg 1 5/27/2022 3:29:26 AM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 5/27/2022 3:29:26 AM 1 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 5/27/2022 3:29:26 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 3:29:26 AM 114 Surr: Toluene-d8 100 70-130 %Rec 1 5/27/2022 3:29:26 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 3:29:26 AM 47 1 Surr: BFB 107 70-130 %Rec 1 5/27/2022 3:29:26 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-08 0' **Project:** Onyx 29 CTB 1 Collection Date: 5/23/2022 10:30:00 AM Lab ID: 2205A92-010 Matrix: SOIL Received Date: 5/25/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME Diesel Range Organics (DRO) 15 8.8 mg/Kg 1 5/27/2022 6:29:54 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 5/27/2022 6:29:54 PM Surr: DNOP 82.3 51.1-141 %Rec 1 5/27/2022 6:29:54 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 5/31/2022 1:19:34 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 5/27/2022 3:57:57 AM Benzene mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/27/2022 3:57:57 AM Ethylbenzene ND 0.047 mg/Kg 1 5/27/2022 3:57:57 AM Xylenes, Total ND 0.094 mg/Kg 1 5/27/2022 3:57:57 AM Surr: 1,2-Dichloroethane-d4 100 70-130 %Rec 5/27/2022 3:57:57 AM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 5/27/2022 3:57:57 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 3:57:57 AM 112 Surr: Toluene-d8 101 70-130 %Rec 1 5/27/2022 3:57:57 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 3:57:57 AM 47 1 Surr: BFB 110 70-130 %Rec 1 5/27/2022 3:57:57 AM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 14

Client: Project:	Vertex R Onyx 29	esources Servi CTB 1	ces, Inc.							
Sample ID:	MB-67791	SampType:	mblk	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch ID:	67791	F	RunNo: 88	375				
Prep Date:	5/31/2022	Analysis Date:	5/31/2022	S	SeqNo: 31	35632	Units: mg/Kg	9		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-67791	SampType:	lcs	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	67791	F	RunNo: 88	375				
Prep Date:	5/31/2022	Analysis Date:	5/31/2022	5	SeqNo: 31	35633	Units: mg/Kg	9		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	95.1	90	110			
Sample ID:	MB-67792	SampType:	mblk	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch ID:	67792	F	RunNo: 88	387				
Prep Date:	5/31/2022	Analysis Date:	5/31/2022	5	SeqNo: 31	35739	Units: mg/Kg	9		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-67792	SampType:	lcs	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	67792	F	RunNo: 88	387				
Prep Date:	5/31/2022	Analysis Date:	5/31/2022	5	SeqNo: 31	35740	Units: mg/Kg	9		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	93.7	90	110			

Qualifiers:

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

Page 11 of 14

2205A92

06-Jun-22

WO#:

Client:Vertex RProject:Onyx 29	esources S CTB 1	bervices,	Inc.								
Sample ID: MB-67713		Гуре: МЕ		Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics		
Client ID: PBS	Batc	Batch ID: 67713			RunNo: 88	3321					
Prep Date: 5/26/2022	Analysis [Date: 5/2	27/2022	S	SeqNo: 31	33778	Units: mg/Kg	9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.2		10.00		92.2	51.1	141				
Sample ID: LCS-67713	Samp	Гуре: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batc	h ID: 677	713	F	RunNo: 88	3321					
Prep Date: 5/26/2022	Analysis [Date: 5/2	27/2022	S	SeqNo: 31	33779	Units: mg/K	9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	64.4	127				
Surr: DNOP	4.1		5.000		82.4	51.1	141				

Qualifiers:

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

Page 12 of 14

2205A92

06-Jun-22

WO#:

Page 119 of 433

Client: Vertex	Resources S	Services,	Inc.							
Project: Onyx 2	9 CTB 1									
Sample ID: Ics-67701	Samp	Type: LC	S4	Tes	stCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batc	h ID: 677	701	F	RunNo: 8	8322				
Prep Date: 5/25/2022	Analysis I	Date: 5/2	26/2022	:	SeqNo: 3	132369	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.9	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			
Sample ID: mb-67701	Samp	Туре: МЕ	BLK	Tes	stCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: PBS	Batc	h ID: 677	701	F	RunNo: 8	8322				
Prep Date: 5/25/2022	Analysis I	Date: 5/2	26/2022	Ş	SeqNo: 3	132370	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	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		115	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

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

Page 13 of 14

WO#: 2205A92 06-Jun-22

Client: Vertex I Project: Onyx 29	Resources Se CTB 1	ervices,	Inc.										
Sample ID: Ics-67701	SampT	ype: LC	S	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: LCSS	Batch	ID: 677	701	RunNo: 88322									
Prep Date: 5/25/2022	26/2022	SeqNo: 3132396 Units: mg/Kg											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	70	130						
Surr: BFB	510		500.0		102	70	130						
Sample ID: mb-67701	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange				
Client ID: PBS	Batch	ID: 677	701	F	RunNo: 88	3322							
Prep Date: 5/25/2022	Analysis D	ate: 5/2	26/2022	5	SeqNo: 31	32397	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	ND	5.0											
Surr: BFB	550		500.0		109	70	130						

Qualifiers:

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

Page 14 of 14

WO#: 2205A92 06-Jun-22

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment A TEL: 505-345-39 Website: www.	490 Ibuquerq 75 FAX:	1 Hawkins nue, NM 87 505-345-4	NE 109 107	Sample Log-In Check List					
Client Name: Vertex Resources Services, Inc.	Work Order Numb	er: 220	5A92			RcptNo: 1				
Received By: Juan Rojas	5/25/2022 7:15:00 A	м		Huan	En g					
Completed By: Sean Livingston	5/25/2022 8:44:36 A	м		5	1	nat				
Reviewed By: 3n 5-125-122						, 90i-				
Chain of Custody										
1. Is Chain of Custody complete?		Yes		No		Not Present				
2. How was the sample delivered?		Cou	rier							
<u>Log In</u>										
3. Was an attempt made to cool the sample	s?	Yes		No						
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes		No						
5. Sample(s) in proper container(s)?		Yes		No						
6. Sufficient sample volume for indicated tes	t(s)?	Yes		No						
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	\checkmark	No						
8. Was preservative added to bottles?		Yes		No	\checkmark					
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes		No						
10, Were any sample containers received bro	ken?	Yes		No		# of preserved				
11. Does paperwork match bottle labels?		Yes		No	n	bottles checked for pH:				
(Note discrepancies on chain of custody)		165		NO		(<2 or >12 unless noted)				
12. Are matrices correctly identified on Chain	of Custody?	Yes	~	No		Adjusted?				
13. Is it clear what analyses were requested?		Yes		No						
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by: 5-25-22				
Special Handling (if applicable)										
15. Was client notified of all discrepancies wi	th this order?	Yes		No		NA 🗹				
Person Notified:	Date:			_						
By Whom:	Via:	∏ eM	ail 🗆 PH	none	Fax	In Person				
Regarding:			- Ц. ч] . ux					
Client Instructions:										
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact Seal No	Seal D		Signed	2					

Page 1 of 1

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1 Time:	d Z Rush		29 CTB	(01+10	ager:	Molvica Reppin	Scarttaur	PYes	1	Cooler Temp(including CF): 0.3	Preservative Type	ice	-								-	Via:	1	Via:
Turn-Around Time:	」	Project Name:	OMUX	Project #:	77C	Project Manager:	MOM	Ľ	On Ice:	# of Coolers:	Cooler Temp	Container Type and #	Ix403 121	-									Received by:	Munun	Received by:
p							dation)						Ó	, O	,0	2'	,0	0	0	12	0	,0	Ĩ		
Chain-of-Custody Record				le			Level 4 (Full Validation)	Az Compliance				Sample Name	BH122-01	BH22-02	BH22-03	BH 22-03	BH22-04	BH22 - 05	BH 22 - 06	BH 22-06	BH 22-07	BH 22-08	d by:	J. Caritten	Time: Relinquished by: Received by Via: Date Time
of-Cu	ertex	MON		ON M	2			D Az Co	□ Other			Matrix	Soil	-								-	Relinquished by:	Sally	Relinquished by:
hain-	1/21	DP	Mailing Address:)		Fax#:	ackage: lard			(Type)		Time	239:00	9:10	9:20	9:30	9:40	9:50	0:00	10:10	0:20	10:30	-	-	Time:
C	Client:		· Mailing ,		Phone #:	email or Fax#	QA/QC Package:	Accreditation:	D NELAC	□ EDD (Type)		Date	5/23(-	~	2	2	2	1	1	-	-	Date: T	23	Salate: Time:

'S



August 18, 2022

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

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208802

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-01 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:00:00 PM Lab ID: 2208802-001 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/16/2022 1:38:25 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/16/2022 1:38:25 PM Surr: DNOP 97.7 21-129 %Rec 1 8/16/2022 1:38:25 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 6:33:00 PM 4.9 mg/Kg 1 Surr: BFB 99.5 37.7-212 %Rec 1 8/15/2022 6:33:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 8/15/2022 6:33:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 6:33:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 6:33:00 PM Xylenes, Total ND 0.098 mg/Kg 1 8/15/2022 6:33:00 PM Surr: 4-Bromofluorobenzene 96.6 70-130 %Rec 1 8/15/2022 6:33:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 8/15/2022 11:14:26 PM 1300 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-02 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:05:00 PM Lab ID: 2208802-002 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/16/2022 7:34:12 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/16/2022 7:34:12 AM Surr: DNOP 90.9 21-129 %Rec 1 8/16/2022 7:34:12 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 6:53:00 PM 4.9 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 8/15/2022 6:53:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 8/15/2022 6:53:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 6:53:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 6:53:00 PM Xylenes, Total ND 0.098 mg/Kg 1 8/15/2022 6:53:00 PM Surr: 4-Bromofluorobenzene 95.7 70-130 %Rec 1 8/15/2022 6:53:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 8/15/2022 11:51:27 PM

760

60

20

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-03 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:10:00 PM Lab ID: 2208802-003 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/16/2022 7:48:07 AM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 8/16/2022 7:48:07 AM Surr: DNOP 87.2 21-129 %Rec 1 8/16/2022 7:48:07 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 7:13:00 PM 4.9 mg/Kg 1 Surr: BFB 99.3 37.7-212 %Rec 1 8/15/2022 7:13:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/15/2022 7:13:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 7:13:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 7:13:00 PM Xylenes, Total ND 0.099 mg/Kg 8/15/2022 7:13:00 PM 1 Surr: 4-Bromofluorobenzene 96.6 70-130 %Rec 1 8/15/2022 7:13:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/15/2022 10:08:26 PM 520 60 20

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

Qualifiers:

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

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

Page 3 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-04 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:15:00 PM Lab ID: 2208802-004 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/16/2022 8:02:06 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/16/2022 8:02:06 AM 21-129 Surr: DNOP 88.2 %Rec 1 8/16/2022 8:02:06 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 7:33:00 PM 4.9 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/15/2022 7:33:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 8/15/2022 7:33:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 7:33:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 7:33:00 PM Xylenes, Total ND 0.098 mg/Kg 8/15/2022 7:33:00 PM 1 Surr: 4-Bromofluorobenzene 96.3 70-130 %Rec 1 8/15/2022 7:33:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/15/2022 10:20:50 PM 450 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

Page 4 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-05 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:20:00 PM Lab ID: 2208802-005 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/16/2022 8:15:31 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/16/2022 8:15:31 AM Surr: DNOP 90.2 21-129 %Rec 1 8/16/2022 8:15:31 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 7:52:00 PM 4.9 mg/Kg 1 Surr: BFB 99.2 37.7-212 %Rec 1 8/15/2022 7:52:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/15/2022 7:52:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 7:52:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 7:52:00 PM Xylenes, Total ND 0.099 mg/Kg 8/15/2022 7:52:00 PM 1 Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 8/15/2022 7:52:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/15/2022 10:33:14 PM 87 60 20

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

Qualifiers:

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

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

Page 5 of 23

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208802-006

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208802

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-07 2' Collection Date: 8/10/2022 1:25:00 PM Received Date: 8/12/2022 7:20:00 AM

Lub ID: 2200002 000	Multim Boll										
Analyses	Result	RL Qu	al Units	DF	Date Analyzed						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH						
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 8:29:29 AM						
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/16/2022 8:29:29 AM						
Surr: DNOP	93.4	21-129	%Rec	1	8/16/2022 8:29:29 AM						
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: BRM						
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2022 8:12:00 PM						
Surr: BFB	97.3	37.7-212	%Rec	1	8/15/2022 8:12:00 PM						
EPA METHOD 8021B: VOLATILES					Analyst: BRM						
Benzene	ND	0.025	mg/Kg	1	8/15/2022 8:12:00 PM						
Toluene	ND	0.050	mg/Kg	1	8/15/2022 8:12:00 PM						
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2022 8:12:00 PM						
Xylenes, Total	ND	0.10	mg/Kg	1	8/15/2022 8:12:00 PM						
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	8/15/2022 8:12:00 PM						
EPA METHOD 300.0: ANIONS					Analyst: NAI						
Chloride	71	60	mg/Kg	20	8/15/2022 11:10:27 PM						

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

Page 6 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-09 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:30:00 PM Lab ID: 2208802-007 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/16/2022 8:43:34 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/16/2022 8:43:34 AM Surr: DNOP 93.6 21-129 %Rec 1 8/16/2022 8:43:34 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 8:32:00 PM 4.9 mg/Kg 1 Surr: BFB 99.6 37.7-212 %Rec 1 8/15/2022 8:32:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/15/2022 8:32:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 8:32:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 8:32:00 PM Xylenes, Total ND 0.097 mg/Kg 8/15/2022 8:32:00 PM 1 Surr: 4-Bromofluorobenzene 98.1 70-130 %Rec 1 8/15/2022 8:32:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 8/16/2022 7:57:24 AM 2800 150 50

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 23

Project:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208802

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-11 1' Collection Date: 8/10/2022 1:35:00 PM Received Date: 8/12/2022 7:20:00 AM

Lab ID: 2208802-008	Matrix: SOIL	Received Date: 8/12/2022 7:20:00 AM									
Analyses	Result	RL Qu	al Units	DF	Date Analyzed						
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH						
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 8:57:38 AM						
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/16/2022 8:57:38 AM						
Surr: DNOP	91.4	21-129	%Rec	1	8/16/2022 8:57:38 AM						
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM						
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2022 8:52:00 PM						
Surr: BFB	102	37.7-212	%Rec	1	8/15/2022 8:52:00 PM						
EPA METHOD 8021B: VOLATILES					Analyst: BRM						
Benzene	ND	0.025	mg/Kg	1	8/15/2022 8:52:00 PM						
Toluene	ND	0.050	mg/Kg	1	8/15/2022 8:52:00 PM						
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2022 8:52:00 PM						
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2022 8:52:00 PM						
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	8/15/2022 8:52:00 PM						
EPA METHOD 300.0: ANIONS					Analyst: NAI						
Chloride	1100	60	mg/Kg	20	8/15/2022 11:35:16 PM						

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

Qualifiers:

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

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

Page 8 of 23

Project:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208802

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-01 2' Collection Date: 8/10/2022 1:40:00 PM Received Date: 8/12/2022 7:20:00 AM

Lab ID: 2208802-009	Matrix: SOIL	Received Date: 8/12/2022 7:20:00 AM								
Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 9:11:16 AM					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/16/2022 9:11:16 AM					
Surr: DNOP	87.9	21-129	%Rec	1	8/16/2022 9:11:16 AM					
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: BRM					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2022 9:12:00 PM					
Surr: BFB	98.6	37.7-212	%Rec	1	8/15/2022 9:12:00 PM					
EPA METHOD 8021B: VOLATILES					Analyst: BRM					
Benzene	ND	0.024	mg/Kg	1	8/15/2022 9:12:00 PM					
Toluene	ND	0.048	mg/Kg	1	8/15/2022 9:12:00 PM					
Ethylbenzene	ND	0.048	mg/Kg	1	8/15/2022 9:12:00 PM					
Xylenes, Total	ND	0.096	mg/Kg	1	8/15/2022 9:12:00 PM					
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	8/15/2022 9:12:00 PM					
EPA METHOD 300.0: ANIONS					Analyst: NAI					
Chloride	760	60	mg/Kg	20	8/15/2022 11:47:40 PM					

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

Qualifiers:

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

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

Page 9 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-02 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:45:00 PM Lab ID: 2208802-010 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 10:20:06 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 10:20:06 PM Surr: DNOP 84.9 21-129 %Rec 1 8/15/2022 10:20:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 10:08:00 AM 4.8 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 8/16/2022 10:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 8/16/2022 10:08:00 AM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 10:08:00 AM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 10:08:00 AM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 10:08:00 AM Surr: 4-Bromofluorobenzene 97.1 70-130 %Rec 1 8/16/2022 10:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:00:04 AM 620 60 20

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL

Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-03 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:50:00 PM Lab ID: 2208802-011 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 8/15/2022 11:08:33 PM Diesel Range Organics (DRO) ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 11:08:33 PM Surr: DNOP 83.1 21-129 %Rec 1 8/15/2022 11:08:33 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 10:28:00 AM 5.0 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 8/16/2022 10:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 10:28:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 8/16/2022 10:28:00 AM Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 10:28:00 AM Xylenes, Total ND mg/Kg 8/16/2022 10:28:00 AM 0.099 1 Surr: 4-Bromofluorobenzene 99.7 70-130 %Rec 1 8/16/2022 10:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:12:28 AM 210 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 23

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-04 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 1:55:00 PM Lab ID: 2208802-012 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 11:24:37 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 11:24:37 PM Surr: DNOP 89.2 21-129 %Rec 1 8/15/2022 11:24:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 10:48:00 AM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 8/16/2022 10:48:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 8/16/2022 10:48:00 AM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 10:48:00 AM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 10:48:00 AM Xylenes, Total ND 0.096 mg/Kg 8/16/2022 10:48:00 AM 1 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 8/16/2022 10:48:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:24:52 AM 130 60 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 23

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2208802

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-05 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 2:00:00 PM Lab ID: 2208802-013 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/15/2022 11:40:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/15/2022 11:40:33 PM Surr: DNOP 93.5 21-129 %Rec 1 8/15/2022 11:40:33 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 8/16/2022 11:08:00 AM mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/16/2022 11:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 11:08:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 8/16/2022 11:08:00 AM Ethylbenzene ND 0.047 mg/Kg 1 8/16/2022 11:08:00 AM Xylenes, Total ND 0.094 mg/Kg 8/16/2022 11:08:00 AM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/16/2022 11:08:00 AM

1200

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

mg/Kg

20

60

Р Sample pH Not In Range

RL Reporting Limit Page 13 of 23

Analyst: NAI

8/16/2022 12:37:17 AM

Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported: 8/18/2022

8/16/2022 12:49:41 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-06 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 2:05:00 PM Lab ID: 2208802-014 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/15/2022 11:56:23 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/15/2022 11:56:23 PM Surr: DNOP 91.6 21-129 %Rec 1 8/15/2022 11:56:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 8/16/2022 11:27:00 AM mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/16/2022 11:27:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 11:27:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 8/16/2022 11:27:00 AM Ethylbenzene ND 0.047 mg/Kg 1 8/16/2022 11:27:00 AM Xylenes, Total ND 0.095 mg/Kg 8/16/2022 11:27:00 AM 1 Surr: 4-Bromofluorobenzene 97.7 70-130 %Rec 1 8/16/2022 11:27:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI

810

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

Qualifiers:

Chloride

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

mg/Kg

20

60

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 23

Released to Imaging: 11/22/2022 2:01:52 PM

Project: Lab ID: **Analytical Report** Lab Order 2208802

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-07 2' Onyx 29 CTB1 Separator Collection Date: 8/10/2022 2:10:00 PM 2208802-015 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM

Refer to the QC Summary report	and sample login ch	necklist for flagged OC data and the	preservation information.

Qualifiers:

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

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

Page 15 of 23

Released to Imaging: 11/22/2022 2:01:52 PM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 12:11:58 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 12:11:58 AM
Surr: DNOP	88.3	21-129	%Rec	1	8/16/2022 12:11:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/16/2022 11:47:00 AM
Surr: BFB	104	37.7-212	%Rec	1	8/16/2022 11:47:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 11:47:00 AM
Toluene	ND	0.048	mg/Kg	1	8/16/2022 11:47:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/16/2022 11:47:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/16/2022 11:47:00 AM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	8/16/2022 11:47:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	970	60	mg/Kg	20	8/16/2022 1:02:05 AM

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-08 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/10/2022 2:15:00 PM Lab ID: 2208802-016 Matrix: SOIL Received Date: 8/12/2022 7:20:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/16/2022 12:27:56 AM Motor Oil Range Organics (MRO) 8/16/2022 12:27:56 AM ND 48 mg/Kg 1 Surr: DNOP 84.7 21-129 %Rec 1 8/16/2022 12:27:56 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 12:07:00 PM 4.9 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/16/2022 12:07:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 8/16/2022 12:07:00 PM 1 Toluene ND 0.049 mg/Kg 1 8/16/2022 12:07:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/16/2022 12:07:00 PM

Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 12:07:00 PM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/16/2022 12:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	89	60	mg/Kg	20	8/16/2022 1:39:18 AM

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

Qualifiers:

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

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

Page 16 of 23

Client:	Verte	x Resources Services, Inc.		
Project:	Onyx	29 CTB1 Separator		
Sample ID:	MB-69500	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69500	RunNo: 90282	
Prep Date:	8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3220689 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		ND 1.5		
Sample ID:	LCS-69500	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69500	RunNo: 90282	
Prep Date:	8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3220690 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		15 1.5 15.00	0 97.7 90 110	
Sample ID:	MB-69515	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69515	RunNo: 90298	
Prep Date:	8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3220931 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		ND 1.5		
Sample ID:	LCS-69515	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69515	RunNo: 90298	
Prep Date:	8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3220932 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	
Chloride		14 1.5 15.00	0 93.2 90 110	

Qualifiers:

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

Page 17 of 23

2208802

18-Aug-22

WO#:

	esources Service CTB1 Separator								
	-		Tee						
Sample ID: MB-69511	SampType:					8015M/D: Dies	sel Range	Organics	
Client ID: PBS Prep Date: 8/15/2022	Batch ID: 6			RunNo: 9027	-		_		
	Analysis Date:			SeqNo: 3221		Units: mg/Kg	-		
Analyte Diesel Range Organics (DRO)	Result PQL ND 1		SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)		0							
Surr: DNOP	9.2	10.00		92.4	21	129			
Sample ID: LCS-69511	SampType: I	CS	Tes	tCode: EPA	Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 6	69511	F	RunNo: 9027	6				
Prep Date: 8/15/2022	Analysis Date:	8/15/2022	S	SeqNo: 3221	159	Units: mg/Kg	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43 1		0	85.4	64.4	127			
Surr: DNOP	4.4	5.000		88.7	21	129			
Sample ID: 2208802-010AMS	SampType:	NS	Tes	tCode: EPA	Method	8015M/D: Dies	sel Range	Organics	
Client ID: BES22-02 4'	Batch ID: 6	9511	F	RunNo: 9027	6				
Prep Date: 8/15/2022	Analysis Date:	8/15/2022	S	SeqNo: 3221	161	Units: mg/Kg	9		
Analyte	Result PQL		SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	43 1 3.4	5 48.92 4.892	0	87.4 69.2	36.1 21	154 129			
	5.4	4.092		09.2	21	129			1
Sample ID: 2208802-010AMSE						8015M/D: Dies	sel Range	Organics	
Client ID: BES22-02 4'	Batch ID: 6			RunNo: 9027	-				
Prep Date: 8/15/2022	Analysis Date:			SeqNo: 3221	162	Units: mg/Kg	9		
Analyte	Result PQL 42 1		SPK Ref Val		owLimit 36.1	HighLimit 154	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	42 I 3.5	5 48.69 4.869	0	86.5 71.9	30.1 21	154	1.51 0	33.9 0	
Sample ID: MB-69473	SampType:		Too			8015M/D: Dies		Organics]
Client ID: PBS	Batch ID: 6			RunNo: 9027			sei italiye	Gryanics	
Prep Date: 8/12/2022	Analysis Date:			SeqNo: 3221	•	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3	10.00		83.1	21	129		•	
Sample ID: LCS-69473	SampType: I	CS	Tes	tCode: EPA	Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 6	9473	F	RunNo: 9027	6		-	-	
Prep Date: 8/12/2022	Analysis Date:	8/16/2022	S	SeqNo: 3221	173	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual

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

Page 18 of 23

Page 142 of 433

2208802

18-Aug-22

WO#:

, Inc.		18-Aug-22
Trac	WO#:	2208802

Client: Project:		Resources Se 9 CTB1 Sepa	,	Inc.							
Sample ID:	LCS-69473	SampTy	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 694	173	F	RunNo: 9(0276				
Prep Date:	8/12/2022	Analysis Da	ate: 8/ 1	16/2022	S	SeqNo: 32	221173	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3		5.000		86.6	21	129			
Sample ID:	e ID: MB-69507 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID:	PBS	Batch	ID: 695	507	F	RunNo: 9()304				
Prep Date:	8/15/2022	Analysis Da	ate: 8/ 1	16/2022	S	SeqNo: 32	221327	Units: mg/K	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	organics (DRO)	ND	15								
Motor Oil Range	e Organics (MRO)	ND	50								
Surr: DNOP		9.7		10.00		97.0	21	129			
Sample ID:	LCS-69507	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 695	507	F	RunNo: 9()304				
Prep Date:	8/15/2022	Analysis Da	ate: 8/ 1	16/2022	S	SeqNo: 32	221328	Units: mg/K	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	43	15	50.00	0	86.2	64.4	127			
Surr: DNOP		4.2		5.000		84.1	21	129			

Qualifiers:

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

Page 19 of 23

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	esources Services, Inc. CTB1 Separator			
Sample ID: Ics-69502	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3221186	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 25.00 2200 1000			S
Sample ID: mb-69502	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3221188	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000 1000	102 37.7	212	
Sample ID: Ics-69476	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 69476	RunNo: 90314		
Prep Date: 8/12/2022	Analysis Date: 8/15/2022	SeqNo: 3221639	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 25.00 2300 1000			S
Sample ID: mb-69476	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 69476	RunNo: 90314		
Prep Date: 8/12/2022	Analysis Date: 8/15/2022	SeqNo: 3221640	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000 1000	104 37.7	212	
Sample ID: 2208802-010ams	SampType: MS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: BES22-02 4'	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3222275	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	28 4.9 24.49			
Surr: BFB	2300 979.4	236 37.7	212	S
Sample ID: 2208802-010amsd	SampType: MSD	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: BES22-02 4'	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3222276	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 20 of 23

2208802

18-Aug-22

WO#:
Client: Project:	Vertex Re Onyx 29 (sources Se		Inc.							
	2208802-010amsd	SampT			Too	tCodo: EF	A Mothed	901ED: Coool	line Denge		
Client ID:	BES22-02 4'	• •	ID: 695			RunNo: 90		8015D: Gasol	line Range		
Prep Date:	8/15/2022	Analysis D		16/2022		SegNo: 32		Units: mg/K	a		
	0/13/2022	,					-	U	0		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	29	4.9	24.63	0	117	70	130	3.25	20	
Surr: BFB		2300		985.2		237	37.7	212	0	0	S

Qualifiers:

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

2208802

18-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		esources S CTB1 Sep		Inc.							
Sample ID: Ic	cs-69502	SampT	Гуре: LC	s	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: L	CSS	Batc	h ID: 69	502	F	RunNo: 9(302				
Prep Date:	8/15/2022	Analysis [Date: 8/ *	16/2022	S	SeqNo: 32	21187	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual
Benzene		0.90	0.025	1.000		90.1	80	120	/ortin		Quai
Toluene		0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene		0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total		2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromof	luorobenzene	0.99		1.000		98.5	70	130			
Sample ID: m	nb-69502	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: P	BS	Batcl	h ID: 69	502	F	RunNo: 90	302				
Prep Date:	8/15/2022	Analysis [Date: 8/ *	16/2022	S	SeqNo: 32	21192	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-Bromof	luorobenzene	0.99		1.000		98.8	70	130			
Sample ID: Ic	cs-69476	SampT	Гуре: LC	S	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: L	CSS	Batcl	h ID: 694	176	F	RunNo: 90	314				
Prep Date:	8/12/2022	Analysis E	Date: 8/ *	15/2022	S	SeqNo: 32	21663	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.025	1.000	0	90.2	80	120			
Toluene		0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene		0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total		2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromof	luorobenzene	1.0		1.000		103	70	130			
Sample ID: m	nb-69476	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: P	BS	Batcl	h ID: 694	176	F	RunNo: 90	314				
Prep Date:	8/12/2022	Analysis [Date: 8/	15/2022	S	SeqNo: 32	21664	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-Bromof	luorobenzene	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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

2208802

18-Aug-22

WO#:

Client:

Project:

Client ID:

Prep Date:

Analvte

Benzene

Sample ID: 2208802-011ams

BES22-03 4'

8/15/2022

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

SampType: MS

Batch ID: 69502

Analysis Date: 8/16/2022

PQL

0.024

SPK value

0.9497

SPK Ref Val

0

Onyx 29 CTB1 Separator

Result

0.88

d to	Imaging:	11/22/2022	2:01:52 PM

- Е Estimated value
- J Analyte detected below quantitation limits Р

in the associated Method Blank

- Sample pH Not In Range Reporting Limit
- RL

- Page 23 of 23

Qualifiers:

Release

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

WO#: 2208802

Qual

Page 147 of 433

Toluene	0.90	0.047	0.9497	0	94.9	73.6	124			
Ethylbenzene	0.93	0.047	0.9497	0	98.1	72.7	129			
Xylenes, Total	2.8	0.095	2.849	0	97.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9497		100	70	130			
Sample ID: 2208802-011amsd	SampT	Гуре: МS	D	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: BES22-03 4'	Batcl	h ID: 69	502	F	RunNo: 9	0302				
Prep Date: 8/15/2022	Analysis [Date: 8/ *	16/2022	Ś	SeqNo: 3	222284	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9443	0	92.2	68.8	120	0.914	20	
Toluene	0.90	0.047	0.9443	0	95.0	73.6	124	0.439	20	
Ethylbenzene	0.92	0.047	0.9443	0	97.8	72.7	129	0.864	20	
Xylenes, Total	2.8	0.094	2.833	0	97.6	75.7	126	0.516	20	
Surr: 4-Bromofluorobenzene	0.94		0.9443		99.6	70	130	0	0	

RunNo: 90302

%REC

92.5

SeqNo: 3222283

TestCode: EPA Method 8021B: Volatiles

LowLimit

68.8

Units: mg/Kg

120

%RPD

RPDLimit

HighLimit

ANAL	ONMENTAL /Sis Ratory	Hall Environmental Alb TEL: 505-345-3975 Website: www.ha	490 uquerq 5 FAX:	1 Hawkins ue, NM 87. 505-345-4	NE 109 Sa 107	ample Log-In Checl	c List
Client Name:	Vertex Resources Services, Inc.	Work Order Number	220	3802		RcptNo: 1	
Received By:	Juan Rojas	8/12/2022 7:20:00 AM			flanding	9	
Completed By:	Cheyenne Cason	8/12/2022 8:07:50 AM			Charles Chent	6	
Reviewed By:	TMC	8/12/22					
Chain of Cus	tody						
1. Is Chain of Co	ustody complete?		Yes		No 🗌	Not Present	
2. How was the	sample delivered?		Cou	ier			
Log In 3. Was an attem	pt made to cool the sam	bles?	Yes	V	No 🗌		
4. Were all samp	les received at a tempera	ature of >0° C to 6.0°C	Yes		No	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes		No 🗌		
6. Sufficient sam	ple volume for indicated t	est(s)?	Yes	~	No 🗌]	
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes	V	No 🗌]	
8. Was preservat	ive added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any san	nple containers received t	proken?	Yes		No 🗹	# of preserved bottles checked	
	rk match bottle labels?		Yes	~	No 🗌] for pH:	
	ncies on chain of custody orrectly identified on Cha		Yes		No 🗌	<pre>(<2 or >12 unl Adjusted?</pre>	ess noted)
	analyses were requested		Yes				
14. Were all holdir	ig times able to be met? stomer for authorization.		Yes		No 🗌		12/22
Special Handli	ng (if applicable)				-		
	tified of all discrepancies	with this order?	Yes		No 🗌	NA 🗹	
Person	Notified:	Date:	-			-	
By Who	m:	Via:	eMa	ail 🗌 Ph	one 🗍 Fa	ax 🗍 In Person	
Regardi	ng:						
Client In	structions:						
16. Additional rer	narks:						
17. <u>Cooler Inforr</u> Cooler No 1	nation Temp ºC Condition 0.5 Good	Seal Intact Seal No S Not Present	eal Da	ate S	Signed By	1	

Page 1 of 1

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August 22, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208875

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/13/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-12 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:00:00 AM Lab ID: 2208875-001 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 8/17/2022 12:05:00 PM ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/17/2022 12:05:00 PM Surr: DNOP 98.4 21-129 %Rec 1 8/17/2022 12:05:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 61 8/16/2022 9:07:54 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 5:08:43 PM 1 Toluene ND 0.047 mg/Kg 8/16/2022 5:08:43 PM 1 Ethvlbenzene ND 0.047 mg/Kg 1 8/16/2022 5:08:43 PM Xylenes, Total ND 0.095 mg/Kg 1 8/16/2022 5:08:43 PM Surr: 1.2-Dichloroethane-d4 104 70-130 %Rec 1 8/16/2022 5:08:43 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/16/2022 5:08:43 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/16/2022 5:08:43 PM 117 Surr: Toluene-d8 98.1 70-130 %Rec 1 8/16/2022 5:08:43 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 5:08:43 PM 47 1 Surr: BFB 117 70-130 %Rec 1 8/16/2022 5:08:43 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 POL
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-12 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:05:00 AM Lab ID: 2208875-002 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 12:29:23 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/17/2022 12:29:23 PM Surr: DNOP 103 21-129 %Rec 1 8/17/2022 12:29:23 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/16/2022 9:45:07 PM 190 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 5:37:25 PM 1 Toluene ND 0.048 mg/Kg 8/16/2022 5:37:25 PM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/16/2022 5:37:25 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 5:37:25 PM Surr: 1.2-Dichloroethane-d4 104 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: Toluene-d8 98.7 70-130 %Rec 1 8/16/2022 5:37:25 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 5:37:25 PM 48 mg/Kg 1 Surr: BFB 118 70-130 %Rec 1 8/16/2022 5:37:25 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-13 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:10:00 AM Lab ID: 2208875-003 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 12:53:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/17/2022 12:53:58 PM Surr: DNOP 82.4 21-129 %Rec 1 8/17/2022 12:53:58 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 8/16/2022 9:57:31 PM 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 6:06:11 PM 1 Toluene ND 0.048 mg/Kg 8/16/2022 6:06:11 PM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/16/2022 6:06:11 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 6:06:11 PM Surr: 1.2-Dichloroethane-d4 110 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: Dibromofluoromethane 124 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: Toluene-d8 99.1 70-130 %Rec 1 8/16/2022 6:06:11 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 6:06:11 PM 48 1 Surr: BFB 116 70-130 %Rec 1 8/16/2022 6:06:11 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-13 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:15:00 AM Lab ID: 2208875-004 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 8/17/2022 1:18:14 PM ND 15 mg/Kg 1 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/17/2022 1:18:14 PM Surr: DNOP 77.2 21-129 %Rec 1 8/17/2022 1:18:14 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 8/16/2022 10:34:44 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 6:34:53 PM 1 Toluene ND 0.049 mg/Kg 8/16/2022 6:34:53 PM 1 Ethvlbenzene ND 0.049 mg/Kg 1 8/16/2022 6:34:53 PM Xylenes, Total ND 0.098 mg/Kg 1 8/16/2022 6:34:53 PM Surr: 1.2-Dichloroethane-d4 108 70-130 %Rec 1 8/16/2022 6:34:53 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/16/2022 6:34:53 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 6:34:53 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/16/2022 6:34:53 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 6:34:53 PM 49 mg/Kg 1 Surr: BFB 119 70-130 %Rec 1 8/16/2022 6:34:53 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 POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-14 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:20:00 AM Lab ID: 2208875-005 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 1:42:46 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 1:42:46 PM Surr: DNOP 98.7 21-129 %Rec 1 8/17/2022 1:42:46 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/16/2022 10:47:09 PM 160 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 7:03:33 PM 1 Toluene ND 0.047 mg/Kg 8/16/2022 7:03:33 PM 1 Ethvlbenzene ND 0.047 mg/Kg 1 8/16/2022 7:03:33 PM Xylenes, Total ND 0.095 mg/Kg 1 8/16/2022 7:03:33 PM Surr: 1.2-Dichloroethane-d4 109 70-130 %Rec 1 8/16/2022 7:03:33 PM Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/16/2022 7:03:33 PM Surr: Dibromofluoromethane 126 70-130 %Rec 1 8/16/2022 7:03:33 PM Surr: Toluene-d8 98.4 70-130 %Rec 1 8/16/2022 7:03:33 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 7:03:33 PM 47 1 Surr: BFB 117 70-130 %Rec 1 8/16/2022 7:03:33 PM

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

Qualifiers:

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

Page 5 of 24

Project:

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-14 4' Collection Date: 8/11/2022 10:25:00 AM Received Date: 8/13/2022 7:40:00 AM

Lab ID: 2208875-006	Matrix: SOIL	Rece	ived Date:	8/13/2	022 7:40:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 1:56:26 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 1:56:26 PM
Surr: DNOP	93.9	21-129	%Rec	1	8/17/2022 1:56:26 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	170	60	mg/Kg	20	8/16/2022 10:59:33 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 7:32:10 PM
Toluene	ND	0.050	mg/Kg	1	8/16/2022 7:32:10 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2022 7:32:10 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/16/2022 7:32:10 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	8/16/2022 7:32:10 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	8/16/2022 7:32:10 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	8/16/2022 7:32:10 PM
Surr: Toluene-d8	99.9	70-130	%Rec	1	8/16/2022 7:32:10 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/16/2022 7:32:10 PM
Surr: BFB	119	70-130	%Rec	1	8/16/2022 7:32:10 PM

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

Qualifiers:

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

Page 6 of 24

Date Reported: 8/22/2022

8/16/2022 8:00:48 PM

8/16/2022 8:00:48 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-15 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:30:00 AM Lab ID: 2208875-007 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 11:09:00 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/17/2022 11:09:00 AM Surr: DNOP 82.1 21-129 %Rec 1 8/17/2022 11:09:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/16/2022 11:11:58 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.023 mg/Kg 8/16/2022 8:00:48 PM 1 Toluene ND 0.047 mg/Kg 8/16/2022 8:00:48 PM 1 Ethvlbenzene ND 0.047 mg/Kg 1 8/16/2022 8:00:48 PM Xylenes, Total ND 0.093 mg/Kg 1 8/16/2022 8:00:48 PM Surr: 1.2-Dichloroethane-d4 107 70-130 %Rec 1 8/16/2022 8:00:48 PM Surr: 4-Bromofluorobenzene 107 70-130 %Rec 1 8/16/2022 8:00:48 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 8:00:48 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/16/2022 8:00:48 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM

ND

119

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

mg/Kg

%Rec

1

1

47

70-130

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 24

Gasoline Range Organics (GRO)

Surr: BFB

Onyx 29 CTB1 Separator

Project:

Analytical Report Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-15 4' Collection Date: 8/11/2022 10:35:00 AM Received Date: 8/13/2022 7:40:00 AM

Lab ID: 2208875-008	Matrix: SOIL	Rece	eived Date:	8/13/2	022 7:40:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 11:23:03 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 11:23:03 AM
Surr: DNOP	78.5	21-129	%Rec	1	8/17/2022 11:23:03 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/16/2022 11:24:22 PM
EPA METHOD 8260B: VOLATILES SI	HORT LIST				Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	8/16/2022 8:29:23 PM
Toluene	ND	0.046	mg/Kg	1	8/16/2022 8:29:23 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/16/2022 8:29:23 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2022 8:29:23 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/16/2022 8:29:23 PM
EPA METHOD 8015D MOD: GASOLIN	NE RANGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/16/2022 8:29:23 PM
Surr: BFB	122	70-130	%Rec	1	8/16/2022 8:29:23 PM

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

Qualifiers:

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

Page 8 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-16 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:40:00 AM Lab ID: 2208875-009 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 9:32:06 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/17/2022 9:32:06 AM Surr: DNOP 86.9 21-129 %Rec 1 8/17/2022 9:32:06 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 8/16/2022 11:36:46 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.025 mg/Kg 8/16/2022 8:57:57 PM 1 Toluene ND 0.050 mg/Kg 8/16/2022 8:57:57 PM 1 Ethvlbenzene ND 0.050 mg/Kg 1 8/16/2022 8:57:57 PM Xylenes, Total ND 0.099 mg/Kg 1 8/16/2022 8:57:57 PM Surr: 1.2-Dichloroethane-d4 105 70-130 %Rec 1 8/16/2022 8:57:57 PM Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/16/2022 8:57:57 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/16/2022 8:57:57 PM 119 Surr: Toluene-d8 99.1 70-130 %Rec 1 8/16/2022 8:57:57 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 8:57:57 PM 5.0 mg/Kg 1 Surr: BFB 114 70-130 %Rec 1 8/16/2022 8:57:57 PM

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

Qualifiers:

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

Page 9 of 24

2208875-010

Diesel Range Organics (DRO)

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2208875

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022 Client Sample ID: WES22-16 4' Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:45:00 AM Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH ND 8/17/2022 9:45:54 AM 15 mg/Kg 1

Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 9:45:54 AM
Surr: DNOP	95.8	21-129	%Rec	1	8/17/2022 9:45:54 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	100	60	mg/Kg	20	8/16/2022 7:04:05 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 9:26:30 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 9:26:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 9:26:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 9:26:30 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/16/2022 9:26:30 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 9:26:30 PM
Surr: BFB	121	70-130	%Rec	1	8/16/2022 9:26:30 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 10 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-17 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:50:00 AM Lab ID: 2208875-011 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 9:59:50 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 9:59:50 AM Surr: DNOP 92.7 21-129 %Rec 1 8/17/2022 9:59:50 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/16/2022 8:30:31 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/16/2022 9:55:05 PM 1 Toluene ND 0.049 mg/Kg 8/16/2022 9:55:05 PM 1 Ethvlbenzene ND 0.049 mg/Kg 1 8/16/2022 9:55:05 PM Xylenes, Total ND 0.097 mg/Kg 1 8/16/2022 9:55:05 PM Surr: 1.2-Dichloroethane-d4 107 70-130 %Rec 1 8/16/2022 9:55:05 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/16/2022 9:55:05 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 9:55:05 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/16/2022 9:55:05 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 9:55:05 PM 49 mg/Kg 1 Surr: BFB 121 70-130 %Rec 1 8/16/2022 9:55:05 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-17 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:55:00 AM Lab ID: 2208875-012 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 10:13:40 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 10:13:40 AM Surr: DNOP 101 21-129 %Rec 1 8/17/2022 10:13:40 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 61 8/16/2022 8:42:52 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/17/2022 12:46:56 AM 1 Toluene ND 0.048 mg/Kg 8/17/2022 12:46:56 AM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/17/2022 12:46:56 AM Xylenes, Total ND 0.095 mg/Kg 1 8/17/2022 12:46:56 AM Surr: 1.2-Dichloroethane-d4 107 70-130 %Rec 1 8/17/2022 12:46:56 AM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/17/2022 12:46:56 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/17/2022 12:46:56 AM 117 Surr: Toluene-d8 101 70-130 %Rec 1 8/17/2022 12:46:56 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/17/2022 12:46:56 AM 48 mg/Kg 1 Surr: BFB 116 70-130 %Rec 1 8/17/2022 12:46:56 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 POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 12 of 24

Project:

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-09 6' Collection Date: 8/11/2022 11:00:00 AM Received Date: 8/13/2022 7:40:00 AM

Lab ID: 2208875-013	Matrix: SOIL	Rece	eived Date:	8/13/2	022 7:40:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	25	14	mg/Kg	1	8/17/2022 10:55:21 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 10:55:21 AM
Surr: DNOP	89.5	21-129	%Rec	1	8/17/2022 10:55:21 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1600	60	mg/Kg	20	8/16/2022 8:55:12 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/17/2022 1:15:31 AM
Toluene	ND	0.047	mg/Kg	1	8/17/2022 1:15:31 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/17/2022 1:15:31 AM
Xylenes, Total	ND	0.095	mg/Kg	1	8/17/2022 1:15:31 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: Toluene-d8	98.6	70-130	%Rec	1	8/17/2022 1:15:31 AM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/17/2022 1:15:31 AM
Surr: BFB	120	70-130	%Rec	1	8/17/2022 1:15:31 AM

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

Qualifiers:

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

Page 13 of 24

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-10 6' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/11/2022 11:05:00 AM Lab ID: 2208875-014 Matrix: SOIL Received Date: 8/13/2022 7:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 100 15 mg/Kg 1 8/17/2022 9:54:52 AM Motor Oil Range Organics (MRO) 8/17/2022 9:54:52 AM 62 50 mg/Kg 1 Surr: DNOP 95.5 21-129 %Rec 1 8/17/2022 9:54:52 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 1800 8/16/2022 9:07:33 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM Benzene ND 0.024 mg/Kg 8/17/2022 1:44:03 AM 1 Toluene ND 0.048 mg/Kg 8/17/2022 1:44:03 AM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/17/2022 1:44:03 AM Xylenes, Total ND 0.095 mg/Kg 1 8/17/2022 1:44:03 AM Surr: 1.2-Dichloroethane-d4 105 70-130 %Rec 1 8/17/2022 1:44:03 AM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/17/2022 1:44:03 AM Surr: Dibromofluoromethane 119 70-130 %Rec 1 8/17/2022 1:44:03 AM Surr: Toluene-d8 99.3 70-130 %Rec 1 8/17/2022 1:44:03 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/17/2022 1:44:03 AM 48 1 Surr: BFB 117 70-130 %Rec 1 8/17/2022 1:44:03 AM

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

Qualifiers:

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

Page 14 of 24

Onyx 29 CTB1 Separator

Project:

Analytical Report Lab Order 2208875

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022 Client Sample ID: BES22-11 6' Collection Date: 8/11/2022 11:10:00 AM Dessived Data: 8/12/2022 7:40:00 AM

Lab ID: 2208875-015	Matrix: SOIL	Received Date: 8/13/2022 7:40:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 10:18:35 AM				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 10:18:35 AM				
Surr: DNOP	93.4	21-129	%Rec	1	8/17/2022 10:18:35 AM				
EPA METHOD 300.0: ANIONS					Analyst: NAI				
Chloride	110	59	mg/Kg	20	8/16/2022 9:19:54 PM				
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: BRM				
Benzene	ND	0.025	mg/Kg	1	8/17/2022 2:12:39 AM				
Toluene	ND	0.049	mg/Kg	1	8/17/2022 2:12:39 AM				
Ethylbenzene	ND	0.049	mg/Kg	1	8/17/2022 2:12:39 AM				
Xylenes, Total	ND	0.098	mg/Kg	1	8/17/2022 2:12:39 AM				
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	8/17/2022 2:12:39 AM				
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/17/2022 2:12:39 AM				
Surr: Dibromofluoromethane	120	70-130	%Rec	1	8/17/2022 2:12:39 AM				
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/17/2022 2:12:39 AM				
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: BRM				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/17/2022 2:12:39 AM				
Surr: BFB	114	70-130	%Rec	1	8/17/2022 2:12:39 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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 15 of 24

Onyx 29 CTB1 Separator

Project:

Analytical Report Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-12 6' Collection Date: 8/11/2022 11:15:00 AM

Lab ID: 2208875-016	Matrix: SOIL	Received Date: 8/13/2022 7:40:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 11:15:48 AM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 11:15:48 AM			
Surr: DNOP	89.6	21-129	%Rec	1	8/16/2022 11:15:48 AM			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/17/2022 2:11:02 PM			
Surr: BFB	105	37.7-212	%Rec	1	8/17/2022 2:11:02 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.025	mg/Kg	1	8/16/2022 8:26:29 PM			
Toluene	ND	0.050	mg/Kg	1	8/16/2022 8:26:29 PM			
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2022 8:26:29 PM			
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 8:26:29 PM			
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/16/2022 8:26:29 PM			
EPA METHOD 300.0: ANIONS					Analyst: NAI			
Chloride	ND	60	mg/Kg	20	8/16/2022 9:32:15 PM			

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

Qualifiers:

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

Page 16 of 24

2208875-017

Project:

Lab ID:

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208875

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022 Client Sample ID: BES22-13 6' Collection Date: 8/11/2022 11:20:00 AM

Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 11:29:49 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 11:29:49 AM
Surr: DNOP	93.1	21-129	%Rec	1	8/16/2022 11:29:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/17/2022 2:34:48 PM
Surr: BFB	108	37.7-212	%Rec	1	8/17/2022 2:34:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	8/16/2022 9:37:14 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 9:37:14 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 9:37:14 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 9:37:14 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/16/2022 9:37:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	97	60	mg/Kg	20	8/16/2022 10:09:17 PM

Matrix: SOIL

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

Qualifiers:

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

Page 17 of 24

QC SUMMARY REPORT Hall E

	WO#:	2208875
Environmental Analysis Laboratory, Inc.		22-Aug-22

Client: Project:	Devon Devo	Energy 9 CTB1 Separator								
Sample ID:	MB-69543	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 69543	RunNo: 90330							
Prep Date:	8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3222397	Units: mg/Kg						
Analyte Chloride		Result PQL SPK value ND 1.5	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Sample ID:	LCS-69543	SampType: Ics	TestCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 69543	RunNo: 90330							
Prep Date:	8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3222398	Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		15 1.5 15.00	0 0 97.1 90	110						
Sample ID:	MB-69530	SampType: mblk	TestCode: EPA Method	300.0: Anions						
Client ID:	PBS	Batch ID: 69530	RunNo: 90309							
Prep Date:	8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3222751	Units: mg/Kg						
Analyte Chloride		Result PQL SPK value ND 1.5	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Sample ID:	LCS-69530	SampType: Ics	TestCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 69530	RunNo: 90309							
Prep Date:	8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3222752	Units: mg/Kg						
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		14 1.5 15.00	0 92.0 90	110						

Qualifiers:

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

Page 18 of 24

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Devon Energy										
Project:	Onyx 29 CTB	1 Separa	tor								
Sample ID: MB-69	521 S	ampType	: MB	LK	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS		Batch ID	: 695	21	RunNo: 90276						
Prep Date: 8/16/2	2022 Anal	ysis Date	: 8/1	6/2022	S	eqNo: 32	221703	Units: mg/Kg			
Analyte	Re	sult F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	ND	15								
Motor Oil Range Organie	cs (MRO)	ND	50								
Surr: DNOP		8.8		10.00		87.7	21	129			
Sample ID: LCS-69	9521 S	ampType	E: LCS	8	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS		Batch ID	: 695	21	R	unNo: 90	0276				
Prep Date: 8/16/2	2 022 Anal	ysis Date	: 8/1	6/2022	S	eqNo: 32	221704	Units: mg/K	g		
Analyte	Re	sult F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	43	15	50.00	0	86.6	64.4	127			
Surr: DNOP		3.6		5.000		72.9	21	129			
Sample ID: MB-69	519 S	ampType	: MB	LK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS		Batch ID	: 695	19	RunNo: 90333						
Prep Date: 8/15/2	2022 Anal	ysis Date	: 8/1	7/2022	S	eqNo: 32	222874	Units: mg/K	g		
Analyte	Re	sult F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	ND	15								
Motor Oil Range Organie	cs (MRO)	ND	50								
Surr: DNOP		8.7		10.00		86.9	21	129			
Sample ID: LCS-69	9519 S	ampType	E: LCS	S	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS		Batch ID	: 695	19	R	unNo: 90	0333				
Prep Date: 8/15/2	2022 Anal	ysis Date	: 8/1	7/2022	S	eqNo: 32	222875	Units: mg/K	g		
Analyte	Re	sult F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	44	15	50.00	0	87.6	64.4	127			
Surr: DNOP		4.2		5.000		84.4	21	129			
Sample ID: 220887	'5-002AMS S	ampType	: MS		Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: WES22	2-12 4'	Batch ID	: 695	19	R	unNo: 90	0347				
Prep Date: 8/15/2	2 022 Anal	ysis Date	: 8/1	7/2022	S	eqNo: 32	226236	Units: mg/K	g		
Analyte	Re	sult F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	57	15	48.83	14.00	88.3	36.1	154			
Surr: DNOP		6.6		4.883		134	21	129			S

Qualifiers:

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

WO#: 2208875 22-Aug-22

	WO#:	2208875
Hall Environmental Analysis Laboratory, Inc.		22-Aug-22

Client:	Devon Er	nergy									
Project:	Onyx 29	CTB1 Sep	arator								
Sample ID: 2	208875-002AMSE) SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: V	VES22-12 4'	Batch	ID: 69	519	F	RunNo: 9	0347				
Prep Date:	8/15/2022	Analysis D	ate: 8/	17/2022	SeqNo: 3226237			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	51	15	48.88	14.00	75.4	36.1	154	11.6	33.9	
Surr: DNOP		5.8		4.888		118	21	129	0	0	

Qualifiers:

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

Page 20 of 24

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Client:

QC SUMMARY REPORT Hall Env

	WO#:	2208875
vironmental Analysis Laboratory, Inc.		22-Aug-22
Devon Energy		

	CTB1 Sep										
Sample ID: mb-69518	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch	ID: 69	518	RunNo: 90345							
Prep Date: 8/15/2022	Analysis D	ate: 8/	17/2022	S	eqNo: 32	223615	Units: mg/k	٤g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0	1000		105	37.7	212				
Sample ID: Ics-69518	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS	Batch	ID: 69	518	R	RunNo: 90345						
Prep Date: 8/15/2022	Analysis D	ate: 8/	17/2022	SeqNo: 3223616			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137				
Surr: BFB	2100		1000		210	37.7	212				
Sample ID: 2208875-016ams	SampT	ype: MS	6	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-12 6'	Batch	ID: 69	518	RunNo: 90345							
Prep Date: 8/15/2022	Analysis D	ate: 8/	17/2022	S	eqNo: 32	223618	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	4.8	24.18	0	116	70	130				
Surr: BFB	2100		967.1		221	37.7	212			S	
Sample ID: 2208875-016ams	d SampT	ype: MS	SD	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e		
Client ID: BES22-12 6'	Batch	ID: 69	518	R	lunNo: 90	0345					
Drop Data: 0/4 E/2022	Analysis D	ate: 8/	17/2022	S	eqNo: 32	223619	Units: mg/Kg				
Prep Date: 8/15/2022											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Result 27 2100	PQL 4.9	SPK value 24.61 984.3	SPK Ref Val 0	%REC 108 215	LowLimit 70 37.7	HighLimit 130 212	%RPD 5.30 0	RPDLimit 20 0	Qual S	

Qualifiers:

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

Page 21 of 24

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Devon Energy

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project:	Onyx 29	CTB1 Sep	arator								
Sample ID:	mb-69518	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batc	h ID: 69	518	F	RunNo: 9	0310				
Prep Date:	8/15/2022	Analysis E	Date: 8/	16/2022	S	SeqNo: 3	222136	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	1.0		1.000		105	70	130			
Sample ID:	LCS-69518	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: 69	518	F	RunNo: 9	0310				
Prep Date:	8/15/2022	Analysis E	Date: 8/	16/2022	S	SeqNo: 3	222137	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	93.4	80	120			
Toluene		0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene		0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total		2.9	0.10	3.000	0	96.7	80	120			
0 1 D				4 0 0 0							
Surr: 4-Brom											
	2208875-017ams	1.1 SampT	Гуре: МS		Tes	108 tCode: El		130 8021B: Volat	tiles		
Sample ID:		SampT	Гуре: МS h ID: 69	6			PA Method		tiles		
Sample ID: Client ID:	2208875-017ams	SampT	h ID: 69	518	F	tCode: El	PA Method 0310				
Sample ID: Client ID:	2208875-017ams BES22-13 6'	Samp1 Batcl	h ID: 69	5 518 16/2022	F	tCode: El RunNo: 9	PA Method 0310	8021B: Vola		RPDLimit	Qual
Sample ID: Client ID: Prep Date:	2208875-017ams BES22-13 6'	Samp1 Batcl Analysis E	h ID: 69: Date: 8/	5 518 16/2022	F S	tCode: El RunNo: 9 SeqNo: 32	PA Method 0310 222140	8021B: Volat Units: mg/k	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte	2208875-017ams BES22-13 6'	Samp1 Batch Analysis D Result	h ID: 69: Date: 8/	5 518 16/2022 SPK value	F S SPK Ref Val	tCode: EI RunNo: 9 SeqNo: 3 %REC	PA Method 0310 222140 LowLimit	8021B: Volat Units: mg/k HighLimit	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene	2208875-017ams BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1	h ID: 69 Date: 8/ PQL 0.024	518 16/2022 SPK value 0.9542 0.9542 0.9542	F S SPK Ref Val 0	tCode: El RunNo: 9 SeqNo: 32 %REC 109	PA Method 0310 222140 LowLimit 68.8	8021B: Volat Units: mg/k HighLimit 120 124 129	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2208875-017ams BES22-13 6' 8/15/2022	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3	h ID: 699 Date: 8/ PQL 0.024 0.048	518 16/2022 SPK value 0.9542 0.9542	F S SPK Ref Val 0 0	tCode: El RunNo: 9 SeqNo: 3 %REC 109 114	PA Method 0310 222140 LowLimit 68.8 73.6	8021B: Volat Units: mg/k HighLimit 120 124 129 126	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2208875-017ams BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1	h ID: 69 Date: 8 / PQL 0.024 0.048 0.048	518 16/2022 SPK value 0.9542 0.9542 0.9542	F S SPK Ref Val 0 0 0	tCode: Ef RunNo: 9 SeqNo: 3 %REC 109 114 115	PA Method 0310 222140 LowLimit 68.8 73.6 72.7	8021B: Volat Units: mg/k HighLimit 120 124 129	ζg	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	2208875-017ams BES22-13 6' 8/15/2022	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0	h ID: 69 Date: 8 / PQL 0.024 0.048 0.048	518 518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542	F S SPK Ref Val 0 0 0 0	tCode: E RunNo: 9 SeqNo: 3 %REC 109 114 115 115 107	PA Method 0310 222140 LowLimit 68.8 73.6 72.7 75.7 70	8021B: Volat Units: mg/k HighLimit 120 124 129 126	5g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	2208875-017ams BES22-13 6' 8/15/2022	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.095	518 16/2022 SPK value 0.9542 0.9542 0.9542 2.863 0.9542	F SPK Ref Val 0 0 0 0 0 Tes	tCode: E RunNo: 9 SeqNo: 3 %REC 109 114 115 115 107	PA Method 0310 222140 LowLimit 68.8 73.6 72.7 75.7 75.7 70 PA Method	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130	5g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.095	518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542 2.863 0.9542 518	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: E RunNo: 9 SeqNo: 3 %REC 109 114 115 115 107 tCode: E	PA Method 0310 222140 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 0310	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130	Sg %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd BES22-13 6'	SampT Batcl Analysis I Result 1.0 1.1 1.1 3.3 1.0 I SampT Batcl Analysis I Result	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.048 0.095 Fype: MS h ID: 699 Date: 8/	518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542 2.863 0.9542 518 16/2022 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: El RunNo: 9 SeqNo: 3: %REC 109 114 115 115 107 tCode: El RunNo: 9 SeqNo: 3: %REC	PA Method 0310 222140 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 0310 222141 LowLimit	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130 8021B: Volat Units: mg/k HighLimit	Sg %RPD tiles Sg %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 I SampT Batcl Analysis E Result 0.98	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.095 Fype: MS h ID: 699 Date: 8/ PQL 0.024	518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542 518 16/2022 SPK value 0.9524	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: El RunNo: 9 SeqNo: 3: %REC 109 114 115 115 107 tCode: El RunNo: 9 SeqNo: 3: %REC 103	PA Method 0310 222140 222140 68.8 73.6 72.7 75.7 70 PA Method 0310 222141 LowLimit 68.8	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130 8021B: Volat Units: mg/k HighLimit 120	5g %RPD tilles 5g 6.28	RPDLimit 20	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 I SampT Batcl Analysis E Result 0.98 1.0	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.095 Type: MS h ID: 699 Date: 8/ PQL 0.024 0.024	518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542 518 16/2022 SPK value 0.9524 0.9524 0.9524	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	tCode: EI RunNo: 9 SeqNo: 3: %REC 109 114 115 107 tCode: EI RunNo: 9 SeqNo: 3: %REC 103 107	PA Method 0310 222140 222140 68.8 73.6 72.7 75.7 70 PA Method 0310 222141 LowLimit 68.8 73.6	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130 8021B: Volat Units: mg/k HighLimit 120 124	5g %RPD tiles 5g 6.28 6.63	RPDLimit 20 20	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 I SampT Batcl Analysis E Result 0.98 1.0 1.0	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.095 Type: MS h ID: 699 Date: 8/ PQL 0.024 0.024 0.048 0.048	518 16/2022 SPK value 0.9542 0.9542 0.9542 2.863 0.9542 518 16/2022 SPK value 0.9524 0.9524 0.9524 0.9524 0.9524	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0 0 0	tCode: El RunNo: 9 SeqNo: 3: %REC 109 114 115 115 107 tCode: El RunNo: 9 SeqNo: 3: %REC 103 107 108	PA Method 0310 222140 222140 68.8 73.6 72.7 75.7 70 PA Method 0310 222141 LowLimit 68.8 73.6 72.7	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130 8021B: Volat Units: mg/k HighLimit 120 124 129	5g %RPD tiles 5g %RPD 6.28 6.63 6.97	RPDLimit 20 20 20	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2208875-017ams BES22-13 6' 8/15/2022 nofluorobenzene 2208875-017amsd BES22-13 6'	SampT Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 I SampT Batcl Analysis E Result 0.98 1.0	h ID: 699 Date: 8/ PQL 0.024 0.048 0.048 0.048 0.095 Type: MS h ID: 699 Date: 8/ PQL 0.024 0.024	518 16/2022 SPK value 0.9542 0.9542 2.863 0.9542 518 16/2022 SPK value 0.9524 0.9524 0.9524	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	tCode: EI RunNo: 9 SeqNo: 3: %REC 109 114 115 107 tCode: EI RunNo: 9 SeqNo: 3: %REC 103 107	PA Method 0310 222140 222140 68.8 73.6 72.7 75.7 70 PA Method 0310 222141 LowLimit 68.8 73.6	8021B: Volat Units: mg/k HighLimit 120 124 129 126 130 8021B: Volat Units: mg/k HighLimit 120 124	5g %RPD tiles 5g 6.28 6.63	RPDLimit 20 20	

Qualifiers:

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

Page 22 of 24

2208875

22-Aug-22

WO#:

Devon Energy

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Released to Imaging: 11/22/2022 2:01:52 PM

Project: Onyx 2	9 CTB1 Sep	arator									
Sample ID: Ics-69509	SampT	Гуре: LC	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batc	h ID: 69	509	F	RunNo: 90315						
Prep Date: 8/15/2022	Analysis E	Date: 8/	16/2022	S	SeqNo: 3	222198	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	96.1	80	120				
Toluene	0.94	0.050	1.000	0	93.5	80	120				
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120				
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120				
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130				
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130				
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130				
Surr: Toluene-d8	0.50		0.5000		99.2	70	130				
Sample ID: mb-69509	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: PBS	Batc	h ID: 69	509	F	RunNo: 9	0315					
Prep Date: 8/15/2022	Analysis E	Date: 8/	16/2022	5	SeqNo: 3	222199	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									
Kylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130				
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130				
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130				
Surr: Toluene-d8	0.50		0.5000		99.7	70	130				

Qualifiers:

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

Page 23 of 24

WO#: **2208875**

22-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Devon E Project: Onyx 29	Energy 9 CTB1 Sep	arator								
Sample ID: Ics-69509	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 69	509	F	RunNo: 9	0315				
Prep Date: 8/15/2022	Analysis D	0ate: 8/	16/2022	S	SeqNo: 3	222224	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.1	70	130			
Surr: BFB	580		500.0		115	70	130			
Sample ID: mb-69509	SampT	ype: ME	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range				Range		
Client ID: PBS	Batch	n ID: 69	509	F	RunNo: 9	0315				
Prep Date: 8/15/2022	Analysis D	0ate: 8/	16/2022	S	SeqNo: 3	222225	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	590		500.0		118	70	130			

Qualifiers:

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

Page 24 of 24

2208875

22-Aug-22

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-3975 Website: www.ha	490 uquero 5 FAX:	01 Hawk que, NM 505-345	ins NE 87109 5-4107	San	nple Log-In Check List
Client Name: Devon Energy	Work Order Number	: 220	8875			RcptNo: 1
Received By: Juan Rojas	8/13/2022 7:40:00 AM	i i i		Alla	nery	
Completed By: Juan Rojas	8/13/2022 9:01:05 AM			ifua	weary	
Reviewed By: TMe	8/13/22					
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	N	o 🗆	Not Present
2. How was the sample delivered?		Cou	<u>rier</u>			
Log In						
3. Was an attempt made to cool the samples	?	Yes	~	N	o 🗌	NA
4. Were all samples received at a temperature	e of ≥0° C to 6.0°C	Yes	~	N	o 🗆	
5. Sample(s) in proper container(s)?		Yes		N	•	
 Sufficient sample volume for indicated test(s)?	Yes	~	No		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes	~	No		
8. Was preservative added to bottles?		Yes		No		NA 🗌
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes		No	b	NA 🔽
0. Were any sample containers received brok	en?	Yes		N	• 🗸	# of preserved
			-		a	bottles checked
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No	• 🗆	for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes	~	No		Adjusted?
3. Is it clear what analyses were requested?		Yes	~	No		1.1.21
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	•	No	, 🗆	Checked by: jr. 5/13/22
pecial Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		N	•	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 ºC Condition S	eal Intact Seal No S	Seal D	ate	Signed	i By	

Page 1 of 1

	Chain-	of-CI	Chain-of-Custody Record	Turn-Around Time:	1 Time: 2-1294	294					ALLA.	NO OT		
Client:	t: Devar/ Vertex	21 46	CECK	□ Standard	Hand Rush				ANAI		N LO			.>
				Project Name:						a ollod		and the second second second second		
Mailin	Mailing Address:	0m	on Fill	theo	29 6781	1 LSEPArator)	49	4901 Hawkins NE -	kins N	IE - A	buque	Albuquerque, NM 87109	87109	: 11/1
		1		Project #:			Ĕ	Tel. 505-	505-345-3975	375	Fax 5	505-345-4107	07	/202
Phone #:	e #:			22	22E-01720-002	200-				Ana	100000000000000000000000000000000000000	Request	5	
email	email or Fax#:			Project Manager:	ager:		Sec. 2			[*] O		() ()		35:
QA/QC	QA/QC Package:		Level 4 (Full Validation)	Kent	s tomings	560	1208) a 7 MR(s,80a	SWIS	S '⁺Oc		nəzdA\		26 AM
Accre		AZ CC	Az Compliance	Sampler:	11		1.00	-		1 ' ² C		tnəs		-
D NELAC		Dother			T Yes	No T				DN				-
	(ed)			# of Coolers:	6	2		_						-
				Cooler Temp	Cooler Temp(including CF): C. CI HU-12C	10.) -JOST (°C)		-	1.1.1	tэМ г, N	1941	1.12		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2208877 (КХЭТ8 108:Н91	8081 Pe	(d sHA9	8 ARDE	3560 (V	ec) (Se Otal Co		-
11/8	10:00	Soil		1	ICE		B	-	1.	1	1	-		
-	50:01	11.1	LES22-12 4'		-	-002				-				
	01:01		WES22-13 2'			500-								
	10:15		LUES 22-13 41'			h00-								
	10:20	7	Lutes22-14 2'			Sow-								
	10:25		LES22-14 0			700-				-				
	10:30		WES22-15 2'			100-								
	10:35		WES 22-15 4			300-								
-	017:01		12 91-22SAM			-0191				a Ma				
	10:45		4ESZ2-16 4)			ONC								
	10:50		NES22-17 2'											
-	10:55		ES22-17 41	1		210-	I			-				
Date:		Relinquished by:		Received by:	Via:	Date	Remarks:	0	40.	N.	Q	Dixon		
				adunua	dr	8/12/28 930		Direct		B1-11 L	Devon	2		age
S 13/17	1960	Relinquished by:	ed by:	Received by:	Via?	Date Time たらりンデルの	*	104	2012:705	620	51.86			177 of
				101	11001									4

Released to Imaging: 11/22/2022 2:01:52 PM

Cliant:	-TO-UIE	Chain-of-Custody Record	I urn-Around 11	1 1 me: 2-294	600			IAL	FNV	TRO	HALL ENVIRONMENTAL	ived
1.1	Devon vertex	ertex	□ Standard	d Brush				NAL	VSTO		ANALYSTS LABODATODY	1.6
			Project Name:					lled www	Phylippin	www.hallenvironmental.com		
Mailing Address:	Iress:	FIL	thur	29 CIBI	1 cservition]	490	4901 Hawkins NE	ns NE -	Albuque	Albuqueraue. NM 87109	A 87109	: 11/1
	(Project #:			Te	Tel. 505-345-3975	5-3975	Fax	Fax 505-345-4107	4107	1/202
Phone #:			226	225-01720-002	20			A	alysis I	Analysis Request		22 7.
email or Fax#:	x#:		Project Manager:	ager:		_	-		*0	(Jr		:35:.
QA/QC Package:	age:	Level 4 (Full Validation)	Kent	t stallings	560	S08) s 외제 / C	s,80		PO₄, S	nəedAV		26 AM
Accreditation:			Sampler:	2			_		05,1	uəse		
D NELAC	1	her	On Ice:	D Yes	ON D	1000		9	N '	-		
□ EDD (Type)	1		# of Coolers:	1		1.1.1	_	elet		-		
			Cooler Temp(including CF): (-	(Do) JU = Poth			əM 8		100		
Date Time	e Matrix	c Sample Name	Container Type and #	Preservative Type	HEAL No.	(хэтв 08:нчт	9081 P.	PAHs b	BS60 (∧ Cl')E' B	2) 0728 DO letal Co		
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Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-19 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/12/2022 1:00:00 PM Lab ID: 2208917-001 Matrix: SOIL Received Date: 8/16/2022 7:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 10:26:43 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 10:26:43 PM Surr: DNOP 101 21-129 %Rec 1 8/17/2022 10:26:43 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/17/2022 8:45:28 PM 140 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR Benzene ND 0.024 mg/Kg 8/17/2022 12:59:27 PM 1 Toluene ND 0.048 mg/Kg 8/17/2022 12:59:27 PM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/17/2022 12:59:27 PM Xylenes, Total ND 0.096 mg/Kg 1 8/17/2022 12:59:27 PM Surr: 1.2-Dichloroethane-d4 106 70-130 %Rec 1 8/17/2022 12:59:27 PM Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/17/2022 12:59:27 PM Surr: Dibromofluoromethane 121 70-130 %Rec 1 8/17/2022 12:59:27 PM Surr: Toluene-d8 97.7 70-130 %Rec 1 8/17/2022 12:59:27 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/17/2022 12:59:27 PM 4.8 1 Surr: BFB 122 70-130 %Rec 1 8/17/2022 12:59:27 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-21 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/12/2022 1:10:00 PM Lab ID: 2208917-002 Matrix: SOIL Received Date: 8/16/2022 7:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 10:42:38 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/17/2022 10:42:38 PM Surr: DNOP 94.9 21-129 %Rec 1 8/17/2022 10:42:38 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/17/2022 8:57:49 PM 100 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR Benzene ND 0.024 mg/Kg 8/17/2022 2:25:40 PM 1 Toluene ND 0.048 mg/Kg 8/17/2022 2:25:40 PM 1 Ethvlbenzene ND 0.048 mg/Kg 1 8/17/2022 2:25:40 PM Xylenes, Total ND 0.096 mg/Kg 1 8/17/2022 2:25:40 PM Surr: 1.2-Dichloroethane-d4 109 70-130 %Rec 1 8/17/2022 2:25:40 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/17/2022 2:25:40 PM Surr: Dibromofluoromethane 121 70-130 %Rec 1 8/17/2022 2:25:40 PM Surr: Toluene-d8 98.8 70-130 %Rec 1 8/17/2022 2:25:40 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/17/2022 2:25:40 PM 4.8 1 Surr: BFB 118 70-130 %Rec 1 8/17/2022 2:25:40 PM

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

Qualifiers:

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

Page 2 of 0
Analytical Report Lab Order 2208917

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-25 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/12/2022 1:20:00 PM Lab ID: 2208917-003 Matrix: SOIL Received Date: 8/16/2022 7:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 10:58:16 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/17/2022 10:58:16 PM Surr: DNOP 93.2 21-129 %Rec 1 8/17/2022 10:58:16 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/17/2022 9:10:10 PM 120 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR Benzene ND 0.024 mg/Kg 8/17/2022 3:52:03 PM 1 Toluene ND 0.049 mg/Kg 8/17/2022 3:52:03 PM 1 Ethvlbenzene ND 0.049 mg/Kg 1 8/17/2022 3:52:03 PM Xylenes, Total ND 0.097 mg/Kg 1 8/17/2022 3:52:03 PM Surr: 1.2-Dichloroethane-d4 103 70-130 %Rec 1 8/17/2022 3:52:03 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/17/2022 3:52:03 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/17/2022 3:52:03 PM 118 Surr: Toluene-d8 94.9 70-130 %Rec 1 8/17/2022 3:52:03 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/17/2022 3:52:03 PM 49 1 Surr: BFB 117 70-130 %Rec 1 8/17/2022 3:52:03 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 0



August 23, 2022

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

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208A05

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/23/2022 Client Sample ID: WES22-26 2' Collection Date: 8/15/2022 9:00:00 AM Received Date: 8/17/2022 7:10:00 AM

Lab ID: 2208A05-001	Matrix: SOIL	Receiv	ed Date:	8/17/2	2022 7:10:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 5:05:39 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 5:05:39 PM
Surr: DNOP	105	21-129	%Rec	1	8/18/2022 5:05:39 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	140	60	mg/Kg	20	8/18/2022 2:36:24 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 12:27:18 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 12:27:18 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 12:27:18 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/18/2022 12:27:18 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 12:27:18 PM
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 12:27:18 PM
Surr: BFB	122	70-130	%Rec	1	8/18/2022 12:27:18 PM

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

Qualifiers:

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

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

Page 1 of 25

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Gasoline Range Organics (GRO)

EPA METHOD 8015D MOD: GASOLINE RANGE

Surr: Toluene-d8

Surr: BFB

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

8/18/2022 1:53:19 PM

Analyst: JR

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-27 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:05:00 AM Lab ID: 2208A05-002 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 5:49:07 PM Motor Oil Range Organics (MRO) 8/18/2022 5:49:07 PM ND 50 mg/Kg 1 Surr: DNOP 59.3 21-129 %Rec 1 8/18/2022 5:49:07 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 68 60 8/18/2022 3:38:28 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 1:53:19 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 1:53:19 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 1:53:19 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 1:53:19 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 1:53:19 PM 110 1

103

120

101

ND

120

70-130

70-130

70-130

70-130

49

%Rec

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

1

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-28 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:10:00 AM Lab ID: 2208A05-003 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:04:09 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:04:09 PM Surr: DNOP 95.0 21-129 %Rec 1 8/18/2022 6:04:09 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 4:15:41 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 3:19:30 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 3:19:30 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 3:19:30 PM Xylenes, Total ND 0.099 mg/Kg 1 8/18/2022 3:19:30 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 3:19:30 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Toluene-d8 99.3 70-130 %Rec 1 8/18/2022 3:19:30 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:19:30 PM 5.0 1 Surr: BFB 122 70-130 %Rec 1 8/18/2022 3:19:30 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 3 of 25

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-004

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-29 2' Collection Date: 8/15/2022 9:15:00 AM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:19:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 6:19:19 PM
Surr: DNOP	92.6	21-129	%Rec	1	8/18/2022 6:19:19 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:57:23 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 3:48:12 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 3:48:12 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 3:48:12 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 3:48:12 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 3:48:12 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 3:48:12 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	8/18/2022 3:48:12 PM
Surr: Toluene-d8	96.0	70-130	%Rec	1	8/18/2022 3:48:12 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 3:48:12 PM
Surr: BFB	115	70-130	%Rec	1	8/18/2022 3:48:12 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 4 of 25

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/23/2022 Client Sample ID: WES22-30 2' Collection Date: 8/15/2022 9:20:00 AM Received Date: 8/17/2022 7:10:00 AM

Lab ID: 2208A05-005	Matrix: SOIL	Recei	ved Date:	8/17/2	2022 7:10:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL F	RANGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:34:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:34:52 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 6:34:52 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	8/20/2022 3:59:26 PM
EPA METHOD 8260B: VOLATILES	S SHORT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 4:16:52 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Dibromofluoromethane	123	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/18/2022 4:16:52 PM
EPA METHOD 8015D MOD: GASC	LINE RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 4:16:52 PM

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

Qualifiers:

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

Page 5 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-31 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:25:00 AM Lab ID: 2208A05-006 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:50:16 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:50:16 PM Surr: DNOP 85.4 21-129 %Rec 1 8/18/2022 6:50:16 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 71 60 8/20/2022 4:11:51 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 4:45:35 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 4:45:35 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 4:45:35 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 4:45:35 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 4:45:35 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 4:45:35 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 4:45:35 PM 116 Surr: Toluene-d8 98.7 70-130 %Rec 1 8/18/2022 4:45:35 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 4:45:35 PM 49 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 4:45:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-32 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:30:00 AM Lab ID: 2208A05-007 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:05:35 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 7:05:35 PM Surr: DNOP 103 21-129 %Rec 1 8/18/2022 7:05:35 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 4:24:16 PM 120 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 5:14:14 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 5:14:14 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 5:14:14 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 5:14:14 PM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 8/18/2022 5:14:14 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 5:14:14 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 5:14:14 PM Surr: Toluene-d8 100 70-130 %Rec 1 8/18/2022 5:14:14 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 5:14:14 PM 49 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 5:14:14 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 25

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-008

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-15 4' Collection Date: 8/15/2022 9:35:00 AM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 7:21:14 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 7:21:14 PM
Surr: DNOP	119	21-129	%Rec	1	8/18/2022 7:21:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	200	60	mg/Kg	20	8/20/2022 4:36:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 5:42:49 PM
Toluene	ND	0.047	mg/Kg	1	8/18/2022 5:42:49 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/18/2022 5:42:49 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 5:42:49 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/18/2022 5:42:49 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/18/2022 5:42:49 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 5:42:49 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 8 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-16 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:40:00 AM Lab ID: 2208A05-009 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:36:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:36:33 PM Surr: DNOP 92.9 21-129 %Rec 1 8/18/2022 7:36:33 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 460 60 8/20/2022 4:49:05 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 6:11:26 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 6:11:26 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 6:11:26 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 6:11:26 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 6:11:26 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:11:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:11:26 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 6:11:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:11:26 PM 49 1

120

70-130

%Rec

1

8/18/2022 6:11:26 PM

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

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-17 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:45:00 AM Lab ID: 2208A05-010 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:52:10 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 7:52:10 PM Surr: DNOP 108 21-129 %Rec 1 8/18/2022 7:52:10 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 5:01:30 PM 83 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 6:40:02 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 6:40:02 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 6:40:02 PM Xylenes, Total ND 0.10 mg/Kg 1 8/18/2022 6:40:02 PM Surr: 1,2-Dichloroethane-d4 103 %Rec 8/18/2022 6:40:02 PM 70-130 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:40:02 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:40:02 PM 118 Surr: Toluene-d8 98.6 70-130 %Rec 1 8/18/2022 6:40:02 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:40:02 PM 5.0 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 6:40:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-18 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:50:00 AM Lab ID: 2208A05-011 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 8:07:19 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 8:07:19 PM Surr: DNOP 76.5 21-129 %Rec 1 8/18/2022 8:07:19 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 5:18:21 PM 64 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 7:08:43 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 7:08:43 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 7:08:43 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 7:08:43 PM Surr: 1,2-Dichloroethane-d4 107 70-130 %Rec 8/18/2022 7:08:43 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/18/2022 7:08:43 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 7:08:43 PM 116 Surr: Toluene-d8 101 70-130 %Rec 1 8/18/2022 7:08:43 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 7:08:43 PM 48 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 7:08:43 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 25

Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-19 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:55:00 AM Lab ID: 2208A05-012 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 8:22:35 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 8:22:35 PM Surr: DNOP 101 21-129 %Rec 1 8/18/2022 8:22:35 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 260 60 8/18/2022 6:20:04 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.025 8/18/2022 7:37:18 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 7:37:18 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 7:37:18 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 7:37:18 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 7:37:18 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Toluene-d8 98.9 70-130 %Rec 1 8/18/2022 7:37:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 7:37:18 PM 49 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 7:37:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-20 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 10:00:00 AM Lab ID: 2208A05-013 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 8:37:46 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 8:37:46 PM Surr: DNOP 86.5 21-129 %Rec 1 8/18/2022 8:37:46 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 6:57:06 PM 130 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 8:05:54 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 8:05:54 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 8:05:54 PM Xylenes, Total ND 0.099 mg/Kg 1 8/18/2022 8:05:54 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 8:05:54 PM 110 1 Surr: 4-Bromofluorobenzene 108 70-130 %Rec 1 8/18/2022 8:05:54 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 8:05:54 PM 116 Surr: Toluene-d8 98.4 70-130 %Rec 1 8/18/2022 8:05:54 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 8:05:54 PM 5.0 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 8:05:54 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-21 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 10:05:00 AM Lab ID: 2208A05-014 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/18/2022 8:52:56 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 8/18/2022 8:52:56 PM Surr: DNOP 84.3 21-129 %Rec 1 8/18/2022 8:52:56 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 85 60 8/18/2022 7:09:27 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 8:34:30 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 8:34:30 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 8:34:30 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 8:34:30 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 8:34:30 PM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 8/18/2022 8:34:30 PM Surr: Dibromofluoromethane 121 70-130 %Rec 1 8/18/2022 8:34:30 PM Surr: Toluene-d8 100 70-130 %Rec 1 8/18/2022 8:34:30 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 8:34:30 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 8:34:30 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-22 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 10:10:00 AM Lab ID: 2208A05-015 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 9:08:12 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:08:12 PM Surr: DNOP 97.6 21-129 %Rec 1 8/18/2022 9:08:12 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 7:21:48 PM 110 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 9:03:05 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 9:03:05 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 9:03:05 PM Xylenes, Total ND 0.096 mg/Kg 1 8/18/2022 9:03:05 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 9:03:05 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/18/2022 9:03:05 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 9:03:05 PM 116 Surr: Toluene-d8 99.3 70-130 %Rec 1 8/18/2022 9:03:05 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 9:03:05 PM 48 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 9:03:05 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 25

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-016

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-33 2' Collection Date: 8/15/2022 11:30:00 AM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 9:23:14 PM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 9:23:14 PM			
Surr: DNOP	99.5	21-129	%Rec	1	8/18/2022 9:23:14 PM			
EPA METHOD 300.0: ANIONS					Analyst: JTT			
Chloride	ND	60	mg/Kg	20	8/18/2022 7:34:10 PM			
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR			
Benzene	ND	0.024	mg/Kg	1	8/18/2022 9:31:40 PM			
Toluene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM			
Ethylbenzene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM			
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 9:31:40 PM			
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 9:31:40 PM			
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 9:31:40 PM			
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 9:31:40 PM			
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 9:31:40 PM			
EPA METHOD 8015D MOD: GASOLINE RANG	θE				Analyst: JR			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/18/2022 9:31:40 PM			
Surr: BFB	124	70-130	%Rec	1	8/18/2022 9:31:40 PM			

Matrix: SOIL

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

Qualifiers:

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

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

Page 16 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-33 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:35:00 AM Lab ID: 2208A05-017 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 9:38:21 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:38:21 PM Surr: DNOP 104 21-129 %Rec 1 8/18/2022 9:38:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 7:46:30 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 10:00:17 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 10:00:17 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 10:00:17 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 10:00:17 PM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 8/18/2022 10:00:17 PM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/18/2022 10:00:17 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 10:00:17 PM 115 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 10:00:17 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 10:00:17 PM 48 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 10:00:17 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 17 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-34 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:40:00 AM Lab ID: 2208A05-018 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 9:53:44 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 9:53:44 PM Surr: DNOP 95.0 21-129 %Rec 1 8/18/2022 9:53:44 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 8:23:32 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/19/2022 12:51:33 AM Benzene mg/Kg 1 Toluene ND 8/19/2022 12:51:33 AM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/19/2022 12:51:33 AM Xylenes, Total ND 0.098 mg/Kg 1 8/19/2022 12:51:33 AM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 8/19/2022 12:51:33 AM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/19/2022 12:51:33 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/19/2022 12:51:33 AM 112 Surr: Toluene-d8 98.8 70-130 %Rec 1 8/19/2022 12:51:33 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/19/2022 12:51:33 AM 49 1 Surr: BFB 119 70-130 %Rec 1 8/19/2022 12:51:33 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-34 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:45:00 AM Lab ID: 2208A05-019 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 10:09:38 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 10:09:38 PM Surr: DNOP 94.4 21-129 %Rec 1 8/18/2022 10:09:38 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 72 59 8/18/2022 8:35:53 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/19/2022 1:20:01 AM Benzene mg/Kg 1 Toluene ND 8/19/2022 1:20:01 AM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/19/2022 1:20:01 AM Xylenes, Total ND 0.097 mg/Kg 1 8/19/2022 1:20:01 AM Surr: 1,2-Dichloroethane-d4 107 70-130 %Rec 8/19/2022 1:20:01 AM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/19/2022 1:20:01 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/19/2022 1:20:01 AM 111 Surr: Toluene-d8 99.2 70-130 %Rec 1 8/19/2022 1:20:01 AM

117

EPA METHOD 8015D MOD: GASOLINE RANGE Gasoline Range Organics (GRO) ND

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

Qualifiers:

Surr: BFB

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

mg/Kg

%Rec

1

1

48

70-130

- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 25

Analyst: JR

8/19/2022 1:20:01 AM

8/19/2022 1:20:01 AM

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-020

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-14 8' Collection Date: 8/15/2022 1:30:00 PM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 10:25:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 10:25:10 PM
Surr: DNOP	88.6	21-129	%Rec	1	8/18/2022 10:25:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	80	60	mg/Kg	20	8/18/2022 8:48:14 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/19/2022 1:48:32 AM
Toluene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/19/2022 1:48:32 AM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: BFB	116	70-130	%Rec	1	8/19/2022 1:48:32 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 20 of 25

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2208A05

23-Aug-22

WO#:

Client:	Vertex	Resources Services, Inc.		
Project:		29 CTB1 Separator		
Sample ID:	MB-69603	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69603	RunNo: 90384	
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226290 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride		ND 1.5		
Sample ID:	LCS-69603	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69603	RunNo: 90384	
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226292 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride		14 1.5 15.00	0 95.4 90 110	
Sample ID:	MB-69613	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69613	RunNo: 90383	
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226631 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride		ND 1.5		
Sample ID:	LCS-69613	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69613	RunNo: 90383	
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226632 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	it Qual
Chloride		14 1.5 15.00	0 94.5 90 110	
Sample ID:	MB-69605	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69605	RunNo: 90460	
Prep Date:	8/18/2022	Analysis Date: 8/20/2022	SeqNo: 3228049 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLim	iit Qual
Chloride		ND 1.5		
Sample ID:	LCS-69605	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69605	RunNo: 90460	
Dran Data	8/18/2022	Analysis Date: 8/20/2022	SeqNo: 3228050 Units: mg/Kg	
Prep Date:				

Qualifiers:

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

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 21 of 25

QC SUMMARY REPORT

39

3.0

14

46.55

4.655

Page 2	204 of	433
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QC SUM Hall Enviro				aborato	ry, Inc.					WO#:	2208A05 23-Aug-22
Client: Project:	Vertex Res Onyx 29 C		,	, Inc.							
Sample ID: MB-6	9585	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS		Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225979	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	. ,	ND	15								
Motor Oil Range Organ	nics (MRO)	ND	50	40.00				100			
Surr: DNOP		9.6		10.00		96.0	21	129			
Sample ID: LCS-	69585	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	;	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225980	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	55	15	50.00	0	111	64.4	127			
Surr: DNOP		5.4		5.000		108	21	129			
Sample ID: 22084	A05-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: WES2	22-26 2'	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225982	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	41	15	50.00	0	82.7	36.1	154			
Surr: DNOP		3.0		5.000		61.0	21	129			
Sample ID: 2208	405-001AMSD	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: WES:	22-26 2'	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225983	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

Diesel Range Organics (DRO)

Surr: DNOP

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

0

83.4

64.5

36.1

21

154

129

6.30

0

33.9

0

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

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Project: Onyx 29 0	CTB1 Sep	arator								
Sample ID: 2208a05-002ams	Samp	SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: WES22-27 2'	Batcl	h ID: 69	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/ *	18/2022	S	SeqNo: 32	225801	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9625	0	98.1	75.8	123			
Toluene	0.94	0.048	0.9625	0	97.4	68.3	130			
Ethylbenzene	0.90	0.048	0.9625	0	93.1	76.6	132			
Xylenes, Total	2.9	0.096	2.887	0	101	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.49		0.4812		102	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4812		106	70	130			
Surr: Dibromofluoromethane	0.59		0.4812		122	70	130			
Surr: Toluene-d8	0.49		0.4812		101	70	130			
Sample ID: 2208a05-002amsd	SampT	Гуре: МS	D4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: WES22-27 2'	Batcl	h ID: 69	569	F	RunNo: 9	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/ *	18/2022	5	SeqNo: 32	225802	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9699	0	86.1	75.8	123	12.3	20	
Foluene	0.80	0.048	0.9699	0	82.5	68.3	130	15.8	20	
Ethylbenzene	0.80	0.048	0.9699	0	83.0	76.6	132	10.8	20	
Kylenes, Total	2.5	0.097	2.910	0	87.3	74.7	132	13.3	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4850		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.4850		107	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4850		121	70	130	0	0	
Surr: Toluene-d8	0.46		0.4850		95.3	70	130	0	0	
Sample ID: Ics-69569	Samp	Type: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batcl	h ID: 695	569	F	RunNo: 9	0413				
Prep Date: 8/17/2022	Analysis I	Date: 8/	18/2022	S	SeqNo: 3	225821	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.6	80	120			
Toluene	0.82	0.050	1.000	0	82.4	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.5	80	120			
Aylonos, rotai										
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
	0.54 0.53		0.5000 0.5000		109 105	70 70	130 130			
Surr: 1,2-Dichloroethane-d4										

Qualifiers:

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

2208A05

23-Aug-22

WO#:

Client:

Project:

Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

в

Е

J

Р

RL

Estimated value

Reporting Limit

Sample pH Not In Range

2208405	

Page 206 of 433

	WO#:	2208A05
y, Inc.		23-Aug-22

	-									
Sample ID: mb-69569	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: PBS	Batcl	n ID: 695	569	F	RunNo: 9(0413				
Prep Date: 8/17/2022	Analysis [Date: 8/ *	18/2022	S	SeqNo: 32	225822	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	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		115	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- Page 24 of 25

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		esources Se CTB1 Sepa	,	Inc.							
Sample ID:	2208a05-001ams	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	WES22-26 2'	Batch	ID: 695	569	F	RunNo: 90	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ '	18/2022	S	SeqNo: 32	225834	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	24.98	0	105	65.9	123			
Surr: BFB		570		499.5		115	70	130			
Sample ID:	2208a05-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	WES22-26 2'	Batch	ID: 695	569	F	RunNo: 9	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ *	18/2022	S	SeqNo: 32	225835	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	24.93	0	97.2	65.9	123	7.77	20	
Surr: BFB		560		498.5		113	70	130	0	0	
Sample ID:	lcs-69569	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	LCSS	Batch	ID: 695	569	F	RunNo: 9	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ ′	18/2022	S	SeqNo: 32	225855	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	87.2	70	130			
Surr: BFB		580		500.0		117	70	130			
Sample ID:	mb-69569	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	lange	
Client ID:	PBS	Batch	ID: 695	569	F	RunNo: 9	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ *	18/2022	S	SeqNo: 32	225856	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		580		500.0		117	70	130			

Qualifiers:

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

Page 25 of 25

2208A05

23-Aug-22

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY		901 Haw erque, NA X: 505-3-	kins NE 187109 Sai 15-4107	mple Log-In Che	Page 208 eck List
Client Name: Vertex Resources Services, Inc.	Work Order Number: 2	208A05		RcptNo: 1	- V
Received By: Juan Rojas 8/	17/2022 7:10:00 AM		funnang)		
Completed By: Cheyenne Cason 8/	17/2022 8:04:39 AM		(lend)		
Reviewed By: m 8-117-122			Contract		
Chain of Custody					
1. Is Chain of Custody complete?	Y	es 🗸	No 🗌	Not Present	
2. How was the sample delivered?	C	ourier			
Log In					
3. Was an attempt made to cool the samples?	Ye	es 🔽	No 🗌		
4. Were all samples received at a temperature of >	0° C to 6.0°C Ye	s 🗸	No 🗌		
5. Sample(s) in proper container(s)?	Ye	s 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Ye	s 🗸	No 🗌		
7. Are samples (except VOA and ONG) properly pre	eserved? Ye	s 🗸	No 🗌		
8. Was preservative added to bottles?	Ye	s 🗆	No 🗸	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	AQ VOA? Ye	s 🗌	No 🗌		
10. Were any sample containers received broken?	Ye	s 🗆	No 🔽		/
11.Does paperwork match bottle labels?	Ye	s 🔽	No 🗌	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Cust	odu ² Ve	s 🗸	No 🗌	(<2 or >12 Adjusted2	unless noted)
13. Is it clear what analyses were requested?		s V		ridjudice	
14. Were all holding times able to be met?		s 🔽		Checked by: KPC	A 8.17. 2
(If no, notify customer for authorization.)				2 oneonou sy. 00	
Special Handling (if applicable)					
15, Was client notified of all discrepancies with this c	order? Ye	s 🗌	No 🗌	NA 🔽	
Person Notified:	Date:		_		
By Whom:	Via: 🗌 e	Mail 🗌	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal In	an and the second second second second	Date	Signed By		
1 0.3 Good Not Pres	sent				

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Page 1 of 1

lease	Chain-of-Custody Record	Turn-Around Time: 2-	2-Day					
Client:	Devon / Vertex	Candard Crush	,		HALL	LENV.	HALL ENVIRONMENTAL	.>
magi					ed work		control com	-
	Mailing Address:	ongt 29 CT 8	1 CSEMMEON)	4901 H	4901 Hawkins NE	- Albuque	Albuquerque, NM 87109	: 11/.
	1	Project #:		Tel. 50	Tel. 505-345-3975		Fax 505-345-4107	1/20.
Phone #:	t.#:	225-01720-001	10			Anal	tequest	22 7.
email (email or Fax#:	Project Manager:				*0	(tr	35:2
QA/QC Packa	QA/QC Package: Standard I Level 4 (Full Validation)	Kent stamings	seci		SWISC	PO₄, S	ıəsdA\tı	26 AM
Accrec	Accreditation: Accreditation: Accreditation	Sampler: C D		ספ		0 ^{5'}	uəse	
D NELAC		On Ice: D_Yes	ON []	/ 01	3 10	N '		
	EDD (Type)	# of Coolers:)		89	01	[£] OI	-	
		Cooler Temp(including CF): ()	3-0-0-3 (°C))95I	83	r, <i>۱</i> (AO)	1.1	
Date	Time Matrix Sample Name	ve	HEAL NO. STURY	(ХЭТВ 08:Н9Т 8081 Ре	ерв (М врн _а by В АЯСЯВ	8560 (V СГ/Ъ, В	S) 0728 Total Cc	
8/15	5 9:00 501 415522-26 21	TCE	100			5		
-	9:05 1 2522-27 2'	1 1	202	- 1		-		
-	9:10 LESZZEZE Z'		003					
	9:15 WES22-29 2'		hau					
			Sac					
	9:25 4552-31 2'		300					
	9:30 4 ESZ2-32 2'		2007					
	9:35 BES22-15 41		08					
	9:40 BESZ-16 4'		600					
	9:45 85522-17 4'		010					
	9:50 BES22-18 4		011					
	5	1	210	1		-		
Date:	Time: Relinquished by:		ate Ti	Remarks:			Dixan	Paį
Date:	Time: Relinctuished by:	Received by Via-	CIN IID	À	4.	Bill Devon	02	ge 2
8 100	F	Standay.	Chulty C	202	(サン いろ	5186292	10	09 oj
5	3	N VIA (PUNA	11-1-1-1-11					43

Δ EVON/VENTEX \Box Standard Rush Address: \Box Standard \Box Standard \Box Rush Address: \Box Standard \Box Standard \Box Rush ## Project Name: \Box Standard \Box Standard # \Box Evel 4 (Full Validation) Project Manager: \Box Sampler: Package: \Box Level 4 (Full Validation) Sampler: \Box Sampler: Package: \Box Level 4 (Full Validation) Sampler: \Box Sampler: AC \Box Other \Box Container Project Manager: AC \Box other \Box Sampler: \Box Sampler: AC \Box other \Box Sampler: \Box Sampler: AC \Box of Coolers: \Box of Coolers: \Box \Box Cooler \Box Type and # $Type$ \Box \Box Cooler \Box Coolers: \Box Coolers: \Box \Box Cooler \Box Coolers: \Box Coolers: \Box \Box Cooler \Box Coolers: \Box Coolers: \Box \Box Cooler \Box Cooler: \Box Cooler: \Box \Box Cooler \Box Cooler: \Box Cooler: \Box \Box Cooler \Box Cooler: \Box Cooler: \Box \Box Cooler \Box Cooler:		nain	- - - -	Chain-of-Custody Record	Turn-Around Time:	11ME: 2- Day	hoc			2			12.0	The second	
Project Name: Project Name: Multilenvironmental.com 2724 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 26 27 27 25 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 <td< th=""><th>Client:</th><th>~</th><th>1/cm</th><th>erter</th><th>□ Standard</th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ADODA</th><th>N AL</th></td<>	Client:	~	1/cm	erter	□ Standard	1								ADODA	N AL
Remain and the second of t					Project Nam				1	ť		0	2	ADORA	
Project R: Project	Mailing	Address	- M	F170	shuo	29 078		7	H 1001	awkin.	ww.na	Albuc	Inner	Ital.com	
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August 23, 2022

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

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208A05

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-26 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:00:00 AM Lab ID: 2208A05-001 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 5:05:39 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 5:05:39 PM Surr: DNOP 105 21-129 %Rec 1 8/18/2022 5:05:39 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 140 60 8/18/2022 2:36:24 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 12:27:18 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 12:27:18 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 12:27:18 PM Xylenes, Total ND 0.10 mg/Kg 1 8/18/2022 12:27:18 PM Surr: 1,2-Dichloroethane-d4 109 %Rec 8/18/2022 12:27:18 PM 70-130 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 12:27:18 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 12:27:18 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 12:27:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 12:27:18 PM 5.0 1 Surr: BFB 122 70-130 %Rec 1 8/18/2022 12:27:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-27 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:05:00 AM Lab ID: 2208A05-002 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 5:49:07 PM Motor Oil Range Organics (MRO) 8/18/2022 5:49:07 PM ND 50 mg/Kg 1 Surr: DNOP 59.3 21-129 %Rec 1 8/18/2022 5:49:07 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 68 60 8/18/2022 3:38:28 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 1:53:19 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 1:53:19 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 1:53:19 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 1:53:19 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 1:53:19 PM 110 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/18/2022 1:53:19 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 1:53:19 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 1:53:19 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 2 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-28 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:10:00 AM Lab ID: 2208A05-003 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:04:09 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:04:09 PM Surr: DNOP 95.0 21-129 %Rec 1 8/18/2022 6:04:09 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 4:15:41 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 3:19:30 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 3:19:30 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 3:19:30 PM Xylenes, Total ND 0.099 mg/Kg 1 8/18/2022 3:19:30 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 3:19:30 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Toluene-d8 99.3 70-130 %Rec 1 8/18/2022 3:19:30 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:19:30 PM 5.0 1 Surr: BFB 122 70-130 %Rec 1 8/18/2022 3:19:30 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 3 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-29 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:15:00 AM Lab ID: 2208A05-004 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:19:19 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 6:19:19 PM Surr: DNOP 92.6 21-129 %Rec 1 8/18/2022 6:19:19 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/20/2022 2:57:23 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 3:48:12 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 3:48:12 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 3:48:12 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 3:48:12 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 3:48:12 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Toluene-d8 96.0 70-130 %Rec 1 8/18/2022 3:48:12 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:48:12 PM 48 1 Surr: BFB 115 70-130 %Rec 1 8/18/2022 3:48:12 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 25

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-005

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-30 2' Collection Date: 8/15/2022 9:20:00 AM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:34:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:34:52 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 6:34:52 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	8/20/2022 3:59:26 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 4:16:52 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Dibromofluoromethane	123	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/18/2022 4:16:52 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 4:16:52 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 25
Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-31 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:25:00 AM Lab ID: 2208A05-006 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 6:50:16 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:50:16 PM Surr: DNOP 85.4 21-129 %Rec 1 8/18/2022 6:50:16 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 71 60 8/20/2022 4:11:51 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 4:45:35 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 4:45:35 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 4:45:35 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 4:45:35 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 4:45:35 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 4:45:35 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 4:45:35 PM 116 Surr: Toluene-d8 98.7 70-130 %Rec 1 8/18/2022 4:45:35 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 4:45:35 PM 49 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 4:45:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 6 of 25

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-007

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/23/2022 Client Sample ID: WES22-32 2' Collection Date: 8/15/2022 9:30:00 AM Received Date: 8/17/2022 7:10:00 AM

Result	RL Qu	al Units	DF	Date Analyzed			
RGANICS				Analyst: DGH			
ND	14	mg/Kg	1	8/18/2022 7:05:35 PM			
ND	46	mg/Kg	1	8/18/2022 7:05:35 PM			
103	21-129	%Rec	1	8/18/2022 7:05:35 PM			
				Analyst: NAI			
120	60	mg/Kg	20	8/20/2022 4:24:16 PM			
LIST				Analyst: JR			
ND	0.024	mg/Kg	1	8/18/2022 5:14:14 PM			
ND	0.049	mg/Kg	1	8/18/2022 5:14:14 PM			
ND	0.049	mg/Kg	1	8/18/2022 5:14:14 PM			
ND	0.097	mg/Kg	1	8/18/2022 5:14:14 PM			
105	70-130	%Rec	1	8/18/2022 5:14:14 PM			
106	70-130	%Rec	1	8/18/2022 5:14:14 PM			
120	70-130	%Rec	1	8/18/2022 5:14:14 PM			
100	70-130	%Rec	1	8/18/2022 5:14:14 PM			
NGE				Analyst: JR			
ND	4.9	mg/Kg	1	8/18/2022 5:14:14 PM			
118	70-130	%Rec	1	8/18/2022 5:14:14 PM			
	RGANICS ND ND 103 120 LIST ND ND ND ND 105 106 120 106 120 106 120 100 NGE ND	RGANICS ND 14 ND 46 103 21-129 120 60 LIST ND 0.024 ND 0.049 ND 0.049 ND 0.049 ND 0.049 ND 0.097 105 70-130 106 70-130 106 70-130 100 70-130 NGE ND 4.9	ND 14 mg/Kg ND 46 mg/Kg 103 21-129 %Rec 120 60 mg/Kg LIST ND 0.024 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.097 mg/Kg 105 70-130 %Rec 106 70-130 %Rec 100 70-130 %Rec	ND 14 mg/Kg 1 ND 46 mg/Kg 1 103 21-129 %Rec 1 120 60 mg/Kg 20 LIST ND 0.024 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.097 mg/Kg 1 105 70-130 %Rec 1 106 70-130 %Rec 1 100 70-130 %Rec 1 ND 0.130 %Rec 1 ND 70-130 %Rec 1 100 70-130 %Rec 1 ND 4.9 mg/Kg 1			

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-15 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:35:00 AM Lab ID: 2208A05-008 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 7:21:14 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:21:14 PM Surr: DNOP 21-129 %Rec 1 8/18/2022 7:21:14 PM 119 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 200 60 8/20/2022 4:36:41 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 5:42:49 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 5:42:49 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 8/18/2022 5:42:49 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 5:42:49 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 5:42:49 PM 110 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/18/2022 5:42:49 PM Surr: Dibromofluoromethane 8/18/2022 5:42:49 PM 70-130 %Rec 1 118 Surr: Toluene-d8 100 70-130 %Rec 1 8/18/2022 5:42:49 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 5:42:49 PM 47 1 Surr: BFB 119 70-130 %Rec 1 8/18/2022 5:42:49 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-16 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:40:00 AM Lab ID: 2208A05-009 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 7:36:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:36:33 PM Surr: DNOP 92.9 21-129 %Rec 1 8/18/2022 7:36:33 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 460 60 8/20/2022 4:49:05 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 6:11:26 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 6:11:26 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 6:11:26 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 6:11:26 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 6:11:26 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:11:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:11:26 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 6:11:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:11:26 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 6:11:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 9 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-17 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:45:00 AM Lab ID: 2208A05-010 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 7:52:10 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 7:52:10 PM Surr: DNOP 108 21-129 %Rec 1 8/18/2022 7:52:10 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 5:01:30 PM 83 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 6:40:02 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 6:40:02 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 6:40:02 PM Xylenes, Total ND 0.10 mg/Kg 1 8/18/2022 6:40:02 PM Surr: 1,2-Dichloroethane-d4 103 %Rec 8/18/2022 6:40:02 PM 70-130 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:40:02 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:40:02 PM 118 Surr: Toluene-d8 98.6 70-130 %Rec 1 8/18/2022 6:40:02 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:40:02 PM 5.0 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 6:40:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-18 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:50:00 AM Lab ID: 2208A05-011 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 8/18/2022 8:07:19 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 8:07:19 PM Surr: DNOP 76.5 21-129 %Rec 1 8/18/2022 8:07:19 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 5:18:21 PM 64 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 7:08:43 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 7:08:43 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 7:08:43 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 7:08:43 PM Surr: 1,2-Dichloroethane-d4 107 70-130 %Rec 8/18/2022 7:08:43 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/18/2022 7:08:43 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 7:08:43 PM 116 Surr: Toluene-d8 101 70-130 %Rec 1 8/18/2022 7:08:43 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 7:08:43 PM 48 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 7:08:43 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 25

Released to Imaging: 11/22/2022 2:01:52 PM

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-19 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:55:00 AM Lab ID: 2208A05-012 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 8:22:35 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 8:22:35 PM Surr: DNOP 101 21-129 %Rec 1 8/18/2022 8:22:35 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 260 60 8/18/2022 6:20:04 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.025 8/18/2022 7:37:18 PM Benzene ND mg/Kg 1 Toluene ND 8/18/2022 7:37:18 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 7:37:18 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 7:37:18 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 7:37:18 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Toluene-d8 98.9 70-130 %Rec 1 8/18/2022 7:37:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 7:37:18 PM 49 1

118

70-130

%Rec

1

8/18/2022 7:37:18 PM

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

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 12 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-20 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 10:00:00 AM Lab ID: 2208A05-013 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 8/18/2022 8:37:46 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 8:37:46 PM Surr: DNOP 86.5 21-129 %Rec 1 8/18/2022 8:37:46 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 6:57:06 PM 130 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 8:05:54 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 8:05:54 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 8:05:54 PM Xylenes, Total ND 0.099 mg/Kg 1 8/18/2022 8:05:54 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 8:05:54 PM 110 1 Surr: 4-Bromofluorobenzene 108 70-130 %Rec 1 8/18/2022 8:05:54 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 8:05:54 PM 116 Surr: Toluene-d8 98.4 70-130 %Rec 1 8/18/2022 8:05:54 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 8:05:54 PM 5.0 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 8:05:54 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 25

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A05-014

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-21 4' Collection Date: 8/15/2022 10:05:00 AM Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/18/2022 8:52:56 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/18/2022 8:52:56 PM
Surr: DNOP	84.3	21-129	%Rec	1	8/18/2022 8:52:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	85	60	mg/Kg	20	8/18/2022 7:09:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 8:34:30 PM
Toluene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Dibromofluoromethane	121	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/18/2022 8:34:30 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: BFB	120	70-130	%Rec	1	8/18/2022 8:34:30 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 14 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-22 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 10:10:00 AM Lab ID: 2208A05-015 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 9:08:12 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:08:12 PM Surr: DNOP 97.6 21-129 %Rec 1 8/18/2022 9:08:12 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 7:21:48 PM 110 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 9:03:05 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 9:03:05 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 9:03:05 PM Xylenes, Total ND 0.096 mg/Kg 1 8/18/2022 9:03:05 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 9:03:05 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/18/2022 9:03:05 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 9:03:05 PM 116 Surr: Toluene-d8 99.3 70-130 %Rec 1 8/18/2022 9:03:05 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 9:03:05 PM 48 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 9:03:05 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-33 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:30:00 AM Lab ID: 2208A05-016 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 8/18/2022 9:23:14 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 9:23:14 PM Surr: DNOP 99.5 21-129 %Rec 1 8/18/2022 9:23:14 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 7:34:10 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 9:31:40 PM Benzene mg/Kg 1 Toluene ND 8/18/2022 9:31:40 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 8/18/2022 9:31:40 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 9:31:40 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 9:31:40 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 9:31:40 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 9:31:40 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 9:31:40 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 9:31:40 PM 47 1 Surr: BFB 124 70-130 %Rec 1 8/18/2022 9:31:40 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 16 of 25

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-33 4' Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:35:00 AM 2208A05-017 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND mg/Kg 8/18/2022 9:38:21 PM 14 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:38:21 PM т Μ

Surr: DNOP	104	21-129	%Rec	1	8/18/2022 9:38:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/18/2022 7:46:30 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 10:00:17 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 10:00:17 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 10:00:17 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 10:00:17 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	8/18/2022 10:00:17 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 10:00:17 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	8/18/2022 10:00:17 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 10:00:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 10:00:17 PM
Surr: BFB	118	70-130	%Rec	1	8/18/2022 10:00:17 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 interference S

- Analyte detected in the associated Method Blank в
- E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 17 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-34 2' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:40:00 AM Lab ID: 2208A05-018 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 15 mg/Kg 1 8/18/2022 9:53:44 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 9:53:44 PM Surr: DNOP 95.0 21-129 %Rec 1 8/18/2022 9:53:44 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 8:23:32 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/19/2022 12:51:33 AM Benzene mg/Kg 1 Toluene ND 8/19/2022 12:51:33 AM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/19/2022 12:51:33 AM Xylenes, Total ND 0.098 mg/Kg 1 8/19/2022 12:51:33 AM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 8/19/2022 12:51:33 AM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/19/2022 12:51:33 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/19/2022 12:51:33 AM 112 Surr: Toluene-d8 98.8 70-130 %Rec 1 8/19/2022 12:51:33 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/19/2022 12:51:33 AM 49 1 Surr: BFB 119 70-130 %Rec 1 8/19/2022 12:51:33 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 25

Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-34 4' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 11:45:00 AM Lab ID: 2208A05-019 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/18/2022 10:09:38 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 10:09:38 PM Surr: DNOP 94.4 21-129 %Rec 1 8/18/2022 10:09:38 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 72 59 8/18/2022 8:35:53 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/19/2022 1:20:01 AM Benzene mg/Kg 1 Toluene ND 8/19/2022 1:20:01 AM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/19/2022 1:20:01 AM Xylenes, Total ND 0.097 mg/Kg 1 8/19/2022 1:20:01 AM Surr: 1,2-Dichloroethane-d4 107 70-130 %Rec 8/19/2022 1:20:01 AM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/19/2022 1:20:01 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/19/2022 1:20:01 AM 111 Surr: Toluene-d8 99.2 70-130 %Rec 1 8/19/2022 1:20:01 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/19/2022 1:20:01 AM 48 1 Surr: BFB 117 70-130 %Rec 1 8/19/2022 1:20:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-14 8' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/15/2022 1:30:00 PM Lab ID: 2208A05-020 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO)** ND 15 mg/Kg 1 8/18/2022 10:25:10 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 10:25:10 PM Surr: DNOP 88.6 21-129 %Rec 1 8/18/2022 10:25:10 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 80 60 8/18/2022 8:48:14 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/19/2022 1:48:32 AM Benzene ND mg/Kg 1 Toluene ND 8/19/2022 1:48:32 AM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/19/2022 1:48:32 AM Xylenes, Total ND 0.096 mg/Kg 1 8/19/2022 1:48:32 AM Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 8/19/2022 1:48:32 AM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/19/2022 1:48:32 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/19/2022 1:48:32 AM 112 Surr: Toluene-d8 99.2 70-130 %Rec 1 8/19/2022 1:48:32 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/19/2022 1:48:32 AM 48 1

116

70-130

%Rec

1

8/19/2022 1:48:32 AM

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

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit POL

Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 20 of 25

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2208A05

WO#:

	al Analysis Laboratory, Inc.	23-Aug-2
MB-69603	SampType: mblk TestCode: EPA Method 300.0: Anions	
PBS	Batch ID: 69603 RunNo: 90384	
8/18/2022	Analysis Date: 8/18/2022 SeqNo: 3226290 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	ND 1.5	
LCS-69603	SampType: Ics TestCode: EPA Method 300.0: Anions	
LCSS	Batch ID: 69603 RunNo: 90384	
8/18/2022	Analysis Date: 8/18/2022 SeqNo: 3226292 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	14 1.5 15.00 0 95.4 90 110	
MB-69613	SampType: mblk TestCode: EPA Method 300.0: Anions	
PBS	Batch ID: 69613 RunNo: 90383	
8/18/2022	Analysis Date: 8/18/2022 SeqNo: 3226631 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	ND 1.5	
LCS-69613	SampType: Ics TestCode: EPA Method 300.0: Anions	
LCSS	Batch ID: 69613 RunNo: 90383	
8/18/2022	Analysis Date: 8/18/2022 SeqNo: 3226632 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	14 1.5 15.00 0 94.5 90 110	
MB-69605	SampType: mblk TestCode: EPA Method 300.0: Anions	
PBS	Batch ID: 69605 RunNo: 90460	
8/18/2022	Analysis Date: 8/20/2022 SeqNo: 3228049 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	ND 1.5	
LCS-69605	SampType: Ics TestCode: EPA Method 300.0: Anions	
LCSS	Batch ID: 69605 RunNo: 90460	
8/18/2022	Analysis Date: 8/20/2022 SeqNo: 3228050 Units: mg/Kg	
	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
	Vertex Onyx 2 MB-69603 PBS 8/18/2022 LCS-69603 LCSS 8/18/2022 LCS-69613 LCSS 8/18/2022 MB-69613 LCSS 8/18/2022 MB-69605 PBS 8/18/2022 LCS-69605 LCSS	Vertex Resources Services, Inc. Onyx 29 CTB1 Separator Vertex Resources Services, Inc. Onyx 29 CTB1 Separator MB-69603 SampType: mblk TestCode: EPA Method 300.0: Anions PBS Batch ID: 69603 RunNo: 90384 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3226290 Units: mg/Kg Result POL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit LCS-69603 SampType: Ics TestCode: EPA Method 300.0: Anions Result POL SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit LCS-69603 SampType: Ics TestCode: EPA Method 300.0: Anions Result POL SPK ref Val %REC LowLinit HighLinit %RPD RPDLinit 14 1.5 15.00 0 95.4 90 110 90 110 90 110 90 110 90 110 90 110 110 110 110 110 110 110 110 110

Qualifiers:

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

Page 21 of 25

QC SUMMARY REPORT

39

3.0

14

46.55

4.655

Page 233	of 433
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QC SUM Hall Enviro				aborato	ry, Inc.					WO#:	2208A05 23-Aug-22
Client: Project:	Vertex Res Onyx 29 C		,	, Inc.							
Sample ID: MB-6	9585	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS		Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225979	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	. ,	ND	15								
Motor Oil Range Organ	nics (MRO)	ND	50	40.00				100			
Surr: DNOP		9.6		10.00		96.0	21	129			
Sample ID: LCS-	69585	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	;	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225980	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	55	15	50.00	0	111	64.4	127			
Surr: DNOP		5.4		5.000		108	21	129			
Sample ID: 22084	A05-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: WES2	22-26 2'	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225982	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	41	15	50.00	0	82.7	36.1	154			
Surr: DNOP		3.0		5.000		61.0	21	129			
Sample ID: 2208	405-001AMSD	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: WES:	22-26 2'	Batch	ID: 69	585	F	RunNo: 9	0393				
Prep Date: 8/17	/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225983	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

Diesel Range Organics (DRO)

Surr: DNOP

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

0

83.4

64.5

36.1

21

154

129

6.30

0

33.9

0

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

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Project: Onyx 29 0	CTB1 Sep	arator								
Sample ID: 2208a05-002ams	SampT	уре: МS	64	Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: WES22-27 2'	Batch	Batch ID: 69569			RunNo: 90413					
Prep Date: 8/17/2022	Analysis D	Date: 8/	18/2022	S	SeqNo: 3	225801	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9625	0	98.1	75.8	123			
Toluene	0.94	0.048	0.9625	0	97.4	68.3	130			
Ethylbenzene	0.90	0.048	0.9625	0	93.1	76.6	132			
Xylenes, Total	2.9	0.096	2.887	0	101	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.49		0.4812		102	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4812		106	70	130			
Surr: Dibromofluoromethane	0.59		0.4812		122	70	130			
Surr: Toluene-d8	0.49		0.4812		101	70	130			
Sample ID: 2208a05-002amsd	SampT	ype: MS	SD4	Tes	tCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: WES22-27 2'	Batch ID: 69569			F	RunNo: 90413					
Prep Date: 8/17/2022	Analysis D	0ate: 8/	18/2022	S	SeqNo: 3	225802	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9699	0	86.1	75.8	123	12.3	20	
Toluene	0.80	0.048	0.9699	0	82.5	68.3	130	15.8	20	
Ethylbenzene	0.80	0.048	0.9699	0	83.0	76.6	132	10.8	20	
Xylenes, Total	2.5	0.097	2.910	0	87.3	74.7	132	13.3	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4850		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.4850		107	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4850		121	70	130	0	0	
Surr: Toluene-d8	0.46		0.4850		95.3	70	130	0	0	
Sample ID: Ics-69569	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batch	n ID: 69	569	F	RunNo: 9	0413				
Prep Date: 8/17/2022	Analysis D	Date: 8/	18/2022	S	SeqNo: 3	225821	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.6	80	120			
Toluene	0.82	0.050	1.000	0	82.4	80	120			
	0.82 0.85	0.050 0.050	1.000 1.000	0 0	82.4 85.5	80 80	120 120			
Ethylbenzene										
Ethylbenzene	0.85	0.050	1.000	0	85.5	80	120			
Xylenes, Total	0.85 2.6	0.050	1.000 3.000 0.5000	0	85.5 87.5	80 80	120 120			
Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	0.85 2.6 0.54	0.050	1.000 3.000	0	85.5 87.5 109	80 80 70	120 120 130			

Qualifiers:

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

Page 23 of 25

2208A05

23-Aug-22

WO#:

Released to Imaging: 11/22/2022 2:01:52 PM

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			HOULD A LIA

% Recovery outside of range due to dilution or matrix interference

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Qualifiers:

* D

Н

ND

PQL

S

Project: Onyx 2	9 CTB1 Sep	arator								
Sample ID: mb-69569	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	iles Short I	List	
Client ID: PBS	Batc	h ID: 69	569	F	RunNo: 9	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/ *	18/2022	S	SeqNo: 32	225822	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	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		115	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			

Hall Environmental Analysis Laboratory, Inc. **Client:** Vertex Resources Services, Inc.

Page 235 of 433

WO#: 2208A05 23-Aug-22

Page 24 of 25

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		esources Se CTB1 Sepa	,	Inc.							
Sample ID:	2208a05-001ams	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	WES22-26 2'	Batch	ID: 695	569	F	RunNo: 90	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ '	18/2022	S	SeqNo: 32	225834	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	24.98	0	105	65.9	123			
Surr: BFB		570		499.5		115	70	130			
Sample ID:	2208a05-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	WES22-26 2'	Batch ID: 69569 RunNo: 90413									
Prep Date:	8/17/2022	Analysis D	ate: 8/ ′	18/2022	S	SeqNo: 32	225835	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	24.93	0	97.2	65.9	123	7.77	20	
Surr: BFB		560		498.5		113	70	130	0	0	
Sample ID:	lcs-69569	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	LCSS	Batch	ID: 695	569	F	RunNo: 9	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ ′	18/2022	S	SeqNo: 32	225855	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	87.2	70	130			
Surr: BFB		580		500.0		117	70	130			
Sample ID:	mb-69569	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	lange	
Client ID:	PBS	Batch	ID: 695	569	F	RunNo: 9	0413				
Prep Date:	8/17/2022	Analysis D	ate: 8/ *	18/2022	S	SeqNo: 32	225856	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		580		500.0		117	70	130			

Qualifiers:

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

2208A05

23-Aug-22

Wed by OCD: 11/1/2022 7:35:26 AM HALL ENVIRONMENTAL ANALYSIS LABORATORY		901 Hav erque, N. X: 505-3	wkins NE M 87109 Sa 45-4107	Page 23 ample Log-In Check List		
Client Name: Vertex Resources Services, Inc.	Work Order Number: 22	08A05		RcptNo: 1		
Received By: Juan Rojas 8/1	7/2022 7:10:00 AM		Henrang.	7		
Completed By: Cheyenne Cason 8/1	7/2022 8:04:39 AM		finning (
Reviewed By: m 8-117-122			Gene			
Chain of Custody						
1. Is Chain of Custody complete?	Ye	s 🗸	No 🗌	Not Present		
2. How was the sample delivered?	<u>Co</u>	ourier				
Log In						
3. Was an attempt made to cool the samples?	Ye	s 🗸	No 🗌	NA 🗌		
4. Were all samples received at a temperature of >0	D° C to 6.0°C Ye	s 🗸	No 🗌	NA 🗌		
5. Sample(s) in proper container(s)?	Ye	s 🗸	No 🗌			
6. Sufficient sample volume for indicated test(s)?	Ye	s 🔽	No 🗌			
7. Are samples (except VOA and ONG) properly pre-	served? Ye	5	No 🗌			
8. Was preservative added to bottles?	Ye	s 🗆	No 🔽	NA 🗌		
9. Received at least 1 vial with headspace <1/4" for /	AQ VOA? Ye	s 🗌	No 🗌	NA 🔽		
10. Were any sample containers received broken?	Ye	s 🗆	No 🔽		/	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Ye	s 🔽	No 🗌	# of preserved bottles checked for pH:	unless noted)	
12. Are matrices correctly identified on Chain of Custo	dv? Ve		No 🗌	Adjusted2	unless noted)	
13. Is it clear what analyses were requested?	- T.C.			/		
14. Were all holding times able to be met? (If no, notify customer for authorization.)			No 🗌	Checked by: KR	a 8.17.2	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this or	rder? Ye	s 🗆	No 🗌	NA 🗹		
Person Notified:	Date:					
By Whom:		Mail 🗌	Phone 🗌 Fax	In Person		
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Int	and the second	Date	Signed By			
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Page 1 of 1

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August 23, 2022

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

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208A84

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-35 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/16/2022 9:30:00 AM Lab ID: 2208A84-001 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/18/2022 11:56:59 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/18/2022 11:56:59 AM Surr: DNOP 88.2 21-129 %Rec 1 8/18/2022 11:56:59 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 1:11:00 PM 3.1 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/18/2022 1:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM 1:11:00 PM 1:11:00 PM

Benzene	ND	0.016	mg/Kg	1	8/18/2022 1:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 1:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 1:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 1:11:00 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	8/18/2022 1:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 1:55:18 PM

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

Qualifiers:

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

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

Page 1 of 8

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A84-002

Onyx 29 CTB1 Separator

Analytical Report Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: WES22-36 1'

 Collection Date: 8/16/2022 9:35:00 AM

 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:10:51 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:10:51 PM
Surr: DNOP	92.6	21-129	%Rec	1	8/18/2022 12:10:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 1:51:00 PM
Toluene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Ethylbenzene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Xylenes, Total	ND	0.069	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:07:43 PM

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

Qualifiers:

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

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

Page 2 of 8

2208A84-003

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-37 1' Onyx 29 CTB1 Separator Collection Date: 8/16/2022 9:40:00 AM Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyst: DGH **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 19 15 mg/Kg 1 8/18/2022 12:24:49 PM

	-	-	5 5		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:24:49 PM
Surr: DNOP	96.8	21-129	%Rec	1	8/18/2022 12:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 2:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:20:09 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 8

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A84-004

Onyx 29 CTB1 Separator

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-38 2'Collection Date: 8/16/2022 11:30:00 AMMatrix: SOILReceived Date: 8/18/2022 7:15:00 AMResultRL Qual UnitsDFDate Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:38:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:38:44 PM
Surr: DNOP	89.3	21-129	%Rec	1	8/18/2022 12:38:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:30:00 PM
Toluene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Xylenes, Total	ND	0.079	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	8/20/2022 2:32:34 PM

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

Page 4 of 8

H Holding times for preparation or analysis exceeded

Project:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-40 2' Collection Date: 8/16/2022 1:00:00 PM Received Date: 8/18/2022 7:15:00 AM

Lab ID: 2208A84-005	Matrix: SOIL	Rece	ived Date:	8/18/2	022 7:15:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:52:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 12:52:49 PM
Surr: DNOP	102	21-129	%Rec	1	8/18/2022 12:52:49 PM
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: BFB	105	37.7-212	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:50:00 PM
Toluene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Ethylbenzene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Xylenes, Total	ND	0.081	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	220	60	mg/Kg	20	8/20/2022 2:44:58 PM

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

Qualifiers:

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

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

Page 5 of 8

H Holding times for preparation or analysis exceeded

Client: Project:		ex Resources Services x 29 CTB1 Separator	s, Inc.							
Sample ID:	MB-69605	SampType: m	blk	Tes	tCode: EPA	Method	300.0: Anions	i		
Client ID:	PBS	Batch ID: 69	9605	F	RunNo: 904	60				
Prep Date:	8/18/2022	Analysis Date: 8	/20/2022	S	SeqNo: 322	8049	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-69605	SampType: Ic	s	Tes	tCode: EPA	Method	300.0: Anions	i		
Client ID:	LCSS	Batch ID: 69	9605	F	RunNo: 904	60				
Prep Date:	8/18/2022	Analysis Date: 8	/20/2022	S	SeqNo: 322	8050	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	95.0	90	110			

Qualifiers:

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

Page 6 of 8

2208A84

23-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Resources S 29 CTB1 Sep		Inc.							
Sample ID: 2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch	n ID: A9	0390	F	RunNo: 9()390				
Prep Date:	Analysis D	Date: 8/ *	18/2022	S	SeqNo: 32	225322	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	!	
Client ID: PBS	Batch	n ID: A9	0390	F	RunNo: 9()390				
Prep Date:	Analysis D	Date: 8/	18/2022	S	SeqNo: 32	225323	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

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

2208A84

23-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	x Resources S 29 CTB1 Sej		Inc.									
Sample ID: 100ng btex Ic:	s Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les				
Client ID: LCSS	Bato	h ID: B9	0390	F	RunNo: 9(0390						
Prep Date:	Analysis	Date: 8/ *	18/2022	S	SeqNo: 32	225327	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.83	0.025	1.000	0	83.4	80	120					
Toluene	0.86	0.050	1.000	0	85.6	80	120					
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120					
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000	1.000 99.7 70 130								
Sample ID: mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les				
Client ID: PBS	Bato	h ID: B9	0390	F	RunNo: 9()390						
Prep Date:	Analysis	Date: 8/ '	18/2022	S	SeqNo: 32	225328	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130					

Qualifiers:

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

Page 8 of 8

23-Aug-22

2208A84

ANALYSIS LABORATORY	TEL: 505-345-3	4901 Hawkins Albuquerque, NM 87 975 FAX: 505-345-4 hallenvironmental.	109 Sar	nple Log-In Check List	
Client Name: Vertex Resources Services, Inc.	Work Order Num	ber: 2208A84		RcptNo: 1	
Received By: Tracy Casarrubias	8/18/2022 7:15:00 /	AM			
Completed By: Tracy Casarrubias	8/18/2022 8:15:24 /	M			
Reviewed By: KPG 8.18.22					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌		
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 p	preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/4" fi	or AQ VOA?	Yes	No 🗌		
10. Were any sample containers received broken?		Yes	No 🔽		
				# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	for pH: (<2 or >12 unless noted	-
12. Are matrices correctly identified on Chain of Cu	stodv?	Yes 🔽	No 🗌	Adjusted?	9
13. Is it clear what analyses were requested?		Yes 🔽	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗆	Checked by: JNS/18/2	2
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	s order?	Yes	No 🗌		
Person Notified:	Date:				
By Whom:	Via:	eMail 🗌 Ph	none 🗌 Fax	In Person	
Regarding:	- 197				
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					

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Page 1 of 1

	.>					.35:2	26 AM													Page	e 250 of 4
ACOTW		www.hallenvironmental.com	4901 Hawkins NE - Albuquergue, NM 87109	Fax 505-345-4107	is Request	(tr	ı92dA\ti	-		DV-	·imə	V) 0358 8270 (S Total Co								Dion	21029815
	AL YS	w hallenvir	NE - Albu	975 Fa	Anal	₽O	S '≉Od	' ^z ON	_	103	۹ ۲, ۱		5	-	-		-	_		hored	2012
			Hawkins I	Tel. 505-345-3975		_		(1.4	200	; po	etpo	99 1808 M) 803 d 8HA9								CC: Chanel	AOH: 2102
			4901	Tel.			AM \ O	אם ו	05	HD)	ISD	(X3T8 08:H9T 08:H91	1	-						Remarks:	
1- Cay 20	PRUSH Bame davy		(SEPARTEON)		10		5		ON D		3-0.1=5.2 (°C)	72.08.484		002	003	hoo	00S				Bate Time
		0	246.0		226-01720 -001	ger:	stanings	0	D/Yes	1	10000	Preservative Type	ICC	1	-	-				Via:	Maiccon
	□ Standard	Project Name:	shin	Project #:	226-1	Project Manager:	Kent	Sampler: CD	On Ice:	# of Coolers:	Cooler Temp(including CF): 5-	Container Type and #	1.00				_			Received by: OMUAAA	Received by:
CITAIN-OI-CUSTOUS RECORD	kel		E116				Level 4 (Full Validation)	pliance				Sample Name	LES22-35 1	LUES22-36 1'	U 6522-37 1	WES22-38 2'	4522-90 2'			by:	Time: Relinquished by: Received by Via: co. Date Time Out Co. Out
n)	Devon / VLCKL		cuo	1	_	_		□ Az Compliance				Matrix	Soil	1		•	-			Relinquished by:	Relinquished by:
			Mailing Address:		#:	email or Fax#:	QA/QC Package:	:uo		EDD (Type)		Time	9:30	2:35	04:40	11:30	1:00			Time:	Time:
	Client:		Mailing		Phone #:	email o	QA/QC Packa	Accred				Date	21112	1	-		1			Date:	Date:



August 23, 2022

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

RE: Onyx 29 CTB1 Separator

OrderNo.: 2208A84

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-35 1' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/16/2022 9:30:00 AM Lab ID: 2208A84-001 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 13 mg/Kg 1 8/18/2022 11:56:59 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/18/2022 11:56:59 AM Surr: DNOP 88.2 21-129 %Rec 1 8/18/2022 11:56:59 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 1:11:00 PM 3.1 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/18/2022 1:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 1:11:00 PM 0.016 mg/Kg 1 Toluene ND 0.031 mg/Kg 1 8/18/2022 1:11:00 PM Ethylbenzene ND 0.031 mg/Kg 1 8/18/2022 1:11:00 PM Xylenes, Total ND 0.063 mg/Kg 8/18/2022 1:11:00 PM 1 Surr: 4-Bromofluorobenzene 97.9 70-130 %Rec 1 8/18/2022 1:11:00 PM

ND

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

Qualifiers:

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

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

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analyst: NAI

8/20/2022 1:55:18 PM
Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A84-002

Onyx 29 CTB1 Separator

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-36 1' Collection Date: 8/16/2022 9:35:00 AM Received Date: 8/18/2022 7:15:00 AM

2200101002	Matrix: 5012	necc	Trea Date.	0/10/2	.022 7.15.00 7 101
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:10:51 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:10:51 PM
Surr: DNOP	92.6	21-129	%Rec	1	8/18/2022 12:10:51 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 1:51:00 PM
Toluene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Ethylbenzene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Xylenes, Total	ND	0.069	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:07:43 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 2 of 8

2208A84-003

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-37 1' Onyx 29 CTB1 Separator Collection Date: 8/16/2022 9:40:00 AM Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed**

EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	19	15	mg/Kg	1	8/18/2022 12:24:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:24:49 PM
Surr: DNOP	96.8	21-129	%Rec	1	8/18/2022 12:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 2:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:20:09 PM

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

Qualifiers:

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

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

Page 3 of 8

н Holding times for preparation or analysis exceeded

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2208A84-004

Onyx 29 CTB1 Separator

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-38 2'Collection Date: 8/16/2022 11:30:00 AMMatrix: SOILReceived Date: 8/18/2022 7:15:00 AMResultRL Qual UnitsDFDate Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:38:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:38:44 PM
Surr: DNOP	89.3	21-129	%Rec	1	8/18/2022 12:38:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:30:00 PM
Toluene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Xylenes, Total	ND	0.079	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	8/20/2022 2:32:34 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 4 of 8

Project:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1 Separator

Analytical Report
Lab Order 2208A84

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-40 2' Collection Date: 8/16/2022 1:00:00 PM Received Date: 8/18/2022 7:15:00 AM

Lab ID: 2208A84-005	Matrix: SOIL	Rece	ived Date:	8/18/2	022 7:15:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:52:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 12:52:49 PM
Surr: DNOP	102	21-129	%Rec	1	8/18/2022 12:52:49 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: BFB	105	37.7-212	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:50:00 PM
Toluene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Ethylbenzene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Xylenes, Total	ND	0.081	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	220	60	mg/Kg	20	8/20/2022 2:44:58 PM

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

Qualifiers:

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

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

Page 5 of 8

Client: Project:		ex Resources Serv x 29 CTB1 Separa		Inc.							
Sample ID:	MB-69605	SampType	e: mb	lk	Tes	tCode: EP	A Method	300.0: Anions	i		
Client ID:	PBS	Batch ID): 696	05	F	RunNo: 90	460				
Prep Date:	8/18/2022	Analysis Date	e: 8/2	20/2022	S	SeqNo: 32	28049	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-69605	SampType	e: Ics		Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID): 696	05	F	RunNo: 90	460				
Prep Date:	8/18/2022	Analysis Date	e: 8/2	20/2022	S	SeqNo: 32	28050	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

Page 6 of 8

2208A84

23-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Resources S 29 CTB1 Sep		Inc.							
Sample ID: 2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch	n ID: A9	0390	F	RunNo: 90390					
Prep Date:	Analysis D	Date: 8/ *	18/2022	S	SeqNo: 32	225322	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S
Sample ID: mb	SampT	ype: ME	BLK	Tes	!					
Client ID: PBS	Batch	n ID: A9	0390	F	RunNo: 9()390				
Prep Date:	Analysis D	Date: 8/	18/2022	S	SeqNo: 32	225323	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

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

2208A84

23-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	x Resources S 29 CTB1 Sej		Inc.									
Sample ID: 100ng btex Ic:	s Samp	Туре: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Bato	h ID: B9	0390	F	RunNo: 9(
Prep Date:	Analysis	Date: 8/ *	18/2022	S	SeqNo: 32	225327	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.83	0.025	1.000	0	83.4	80	120					
Toluene	0.86	0.050	1.000	0	85.6	80	120					
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120					
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130					
Sample ID: mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF							
Client ID: PBS	Bato	h ID: B9	0390	F	RunNo: 9()390						
Prep Date:	Analysis	Date: 8/ '	18/2022	S	SeqNo: 32	225328	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130					

Qualifiers:

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

23-Aug-22

	SIS ATORY	TEL: 505-345-3	Albuquerque. NM 1975 FAX: 505-345 v.hallenvironmente	5-4107	nple Log-In Check List	t
	/ertex Resources Services, Inc.	Work Order Num	ber: 2208A84		RcptNo: 1	
Received By:	Tracy Casarrubias	8/18/2022 7:15:00	AM			
Completed By:	Tracy Casarrubias	8/18/2022 8:15:24	AM			
Reviewed By:	KPG 8.18.2	7				
Chain of Custo						
1. Is Chain of Cus	tody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the sa	ample delivered?		Courier			
Log In						
3. Was an attempt	made to cool the samples?		Yes 🔽	No 🗌	NA 🗔	
4. Were all sample	s received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in pro	oper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample	e volume for indicated test(s)?	Yes 🔽	No 🗌		
7. Are samples (ex	cept VOA and ONG) proper	y preserved?	Yes 🔽	No 🗌		
8. Was preservativ	e added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at leas	t 1 vial with headspace <1/4	" for AQ VOA?	Yes	No 🗌		
	le containers received broke		Yes	No 🔽		
					# of preserved bottles checked	
11. Does paperwork	match bottle labels? cies on chain of custody)		Yes 🔽	No 🗌	for pH:	-
	rectly identified on Chain of	Custodv?	Yes 🔽	No 🗌	(<2 or >12 unless note Adjusted?	9 0)
	nalyses were requested?		Yes 🗹	No 🗌		
	times able to be met? omer for authorization.)		Yes 🔽	No 🗆	Checked by: JMS/18/2	22
Special Handlin						
	ed of all discrepancies with t	this order?	Yes	No 🗌		
Person No	otified:	Date:				
By Whom:		Via:	A	Phone 🗌 Fax	In Person	
Regarding		vid.				
Client Inst						
16. Additional rema	rks:					
17. Cooler Informa	ation					

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Page 1 of 1

HALL ENVIRONMENTAL	>					.35:2	26 AM													Page	e 261 of 4
IVIRON	TSIAB	www.hallenvironmental.com	4901 Hawkins NE - Albuquergue, NM 87109	Fax 505-345-4107	sis Request	(tr	n92dA\ti	-		DV-	·imə	V) 0328 8270 (S Total Co									21029815
ALL EP	NALYS	ww.hallenvi	s NE - Albu	-3975 F	Anal	[⊅] O	PO₄, S		5	elete	əM 8	PAHs b RCRA 8 B . TU	-	-						CC: Chanel	NIACE SIN
I			901 Hawkin	Tel. 505-345-3975			PCB's	28082 (1.4	709 3/S	əbi bo	etho	9081 Pe									170M
			4					-	1.1	<u> </u>	1000	(XETB	1				-			Remarks	
00 400-	ZRUSH Same davy		(SEPARTEON)		10		5		D No		3-0.1=5.2 (°C)	72.08 ABU No.		200	200	hoo	200			Pate Time	Bate Time Bligh22
		0	0.947		226-01720 -001	ger:	stanings	0	D/Yes	1,	10000	Preservative Type	ICL	-	_	-		1		Via:	Marcon
	□ Standard	Project Name:	shin	Project #:	226-	Project Manager:	Kent	Sampler: CD	On Ice:	# of Coolers:	Cooler Temp(including CF): 5-	Container Type and #	1.00		_		-			Received by:	Received by:
Citalit-or-custoay record	test		FIL				Level 4 (Full Validation)	pliance				Sample Name	LES22-35 1	LUES22-36 1'	U 6522-37 1	WES22-38 2'				by:	Time: Relinquished by: Received by Via: co. Date Time Out Co. Out
n10	Devon / ULABUN		co	1				Az Compliance				Matrix	Soil	1			-			Relinquished by:	Relinquished by:
	Devo		Mailing Address:		# :	r Fax#:	QA/QC Package:			(Type)		Time	9:30	9:35	04:6	11:30	1:00			Time:	Time:
Cliant.	Cileili.		Mailing		Phone #:	email or Fax#:	QA/QC Packa	Accreditation:		□ EDD (Type)		Date	21112	1			1			Date:	Date:



August 22, 2022

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

OrderNo.: 2208A82

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Onyx 29 CTB1

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-01 4' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:00:00 PM Lab ID: 2208A82-001 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 1:06:46 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 1:06:46 PM 21-129 Surr: DNOP 92.6 %Rec 1 8/18/2022 1:06:46 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 10:14:00 AM 3.3 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/18/2022 10:14:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM 8/18/2022 10:14:00 AM Benzene ND 0.016 mg/Kg 1 Toluene ND 0.033 mg/Kg 1 8/18/2022 10:14:00 AM Ethylbenzene ND 0.033 mg/Kg 1 8/18/2022 10:14:00 AM Xylenes, Total ND 0.065 mg/Kg 1 8/18/2022 10:14:00 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 8/18/2022 10:14:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 10:40:35 AM ma/Ka 20

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

Qualifiers:

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

Page 1 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-02 5' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:10:00 PM Lab ID: 2208A82-002 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 8/18/2022 1:20:52 PM ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 1:20:52 PM 21-129 Surr: DNOP 87.8 %Rec 1 8/18/2022 1:20:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 10:34:00 AM 3.4 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 8/18/2022 10:34:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.017 mg/Kg 8/18/2022 10:34:00 AM 1 Toluene ND 0.034 mg/Kg 1 8/18/2022 10:34:00 AM Ethylbenzene ND 0.034 mg/Kg 1 8/18/2022 10:34:00 AM Xylenes, Total ND 0.069 mg/Kg 1 8/18/2022 10:34:00 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 8/18/2022 10:34:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 10:52:59 AM ma/Ka 20

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

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

Page 2 of 13

Project: Onyx 29 CTB1

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2208A82

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-05 5' Collection Date: 8/17/2022 12:15:00 PM Received Date: 8/18/2022 7:15:00 AM

Lab ID: 2208A82-003	Matrix: SOIL	Rece	ived Date:	022 7:15:00 AM	
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 1:34:55 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 1:34:55 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 1:34:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/18/2022 10:53:00 AM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 10:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/18/2022 10:53:00 AM
Toluene	ND	0.035	mg/Kg	1	8/18/2022 10:53:00 AM
Ethylbenzene	ND	0.035	mg/Kg	1	8/18/2022 10:53:00 AM
Xylenes, Total	ND	0.071	mg/Kg	1	8/18/2022 10:53:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/18/2022 10:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 11:05:23 AM

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

Qualifiers:

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

Page 3 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-06 4' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:20:00 PM Lab ID: 2208A82-004 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 1:49:01 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 1:49:01 PM 21-129 Surr: DNOP 89.6 %Rec 1 8/18/2022 1:49:01 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 11:13:00 AM 3.2 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 8/18/2022 11:13:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM 8/18/2022 11:13:00 AM Benzene ND 0.016 mg/Kg 1 Toluene ND 0.032 mg/Kg 1 8/18/2022 11:13:00 AM Ethylbenzene ND 0.032 mg/Kg 1 8/18/2022 11:13:00 AM Xylenes, Total ND 0.064 mg/Kg 1 8/18/2022 11:13:00 AM Surr: 4-Bromofluorobenzene 97.0 70-130 %Rec 1 8/18/2022 11:13:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 11:17:48 AM ma/Ka 20

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

Qualifiers:

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

Page 4 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-07 4' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:25:00 PM Lab ID: 2208A82-005 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 2:02:54 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 2:02:54 PM 21-129 Surr: DNOP 93.6 %Rec 1 8/18/2022 2:02:54 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 11:32:00 AM 3.4 mg/Kg 1 Surr: BFB 99.9 37.7-212 %Rec 1 8/18/2022 11:32:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 11:32:00 AM 0.017 mg/Kg 1 Toluene ND 0.034 mg/Kg 1 8/18/2022 11:32:00 AM Ethylbenzene ND 0.034 mg/Kg 1 8/18/2022 11:32:00 AM Xylenes, Total ND 0.067 mg/Kg 1 8/18/2022 11:32:00 AM Surr: 4-Bromofluorobenzene 95.5 70-130 %Rec 1 8/18/2022 11:32:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 59 8/18/2022 11:30:13 AM ma/Ka 20

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

Qualifiers:

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

Page 5 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-41 1' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:30:00 PM Lab ID: 2208A82-006 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 2:16:49 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 2:16:49 PM 21-129 Surr: DNOP 83.9 %Rec 1 8/18/2022 2:16:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 11:52:00 AM 3.6 mg/Kg 1 Surr: BFB 99.9 37.7-212 %Rec 1 8/18/2022 11:52:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 11:52:00 AM 0.018 mg/Kg 1 Toluene ND 0.036 mg/Kg 1 8/18/2022 11:52:00 AM Ethylbenzene ND 0.036 mg/Kg 1 8/18/2022 11:52:00 AM Xylenes, Total ND 0.073 mg/Kg 1 8/18/2022 11:52:00 AM Surr: 4-Bromofluorobenzene 97.7 70-130 %Rec 1 8/18/2022 11:52:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 11:42:38 AM ma/Ka 20

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

Qualifiers:

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

Н

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

Page 6 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-42 1' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:35:00 PM Lab ID: 2208A82-007 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 2:31:03 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 2:31:03 PM 21-129 Surr: DNOP 88.3 %Rec 1 8/18/2022 2:31:03 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 12:12:00 PM 3.2 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 8/18/2022 12:12:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 12:12:00 PM 0.016 mg/Kg 1 Toluene ND 0.032 mg/Kg 1 8/18/2022 12:12:00 PM Ethylbenzene ND 0.032 mg/Kg 1 8/18/2022 12:12:00 PM Xylenes, Total ND 0.064 mg/Kg 1 8/18/2022 12:12:00 PM 8/18/2022 12:12:00 PM Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 11:55:02 AM ma/Ka 20

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

Qualifiers:

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

Page 7 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-43 2' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:40:00 PM Lab ID: 2208A82-008 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 2:44:51 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/18/2022 2:44:51 PM Surr: DNOP 91.4 21-129 %Rec 1 8/18/2022 2:44:51 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 12:31:00 PM 3.4 mg/Kg 1 Surr: BFB 97.3 37.7-212 %Rec 1 8/18/2022 12:31:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 12:31:00 PM 0.017 mg/Kg 1 Toluene ND 0.034 mg/Kg 1 8/18/2022 12:31:00 PM Ethylbenzene ND 0.034 mg/Kg 1 8/18/2022 12:31:00 PM Xylenes, Total ND 0.067 mg/Kg 1 8/18/2022 12:31:00 PM 8/18/2022 12:31:00 PM Surr: 4-Bromofluorobenzene 95.0 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 12:07:27 PM ma/Ka 20

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

Qualifiers:

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

Page 8 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-44 2' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 8/17/2022 12:45:00 PM Lab ID: 2208A82-009 Matrix: SOIL Received Date: 8/18/2022 7:15:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 2:58:49 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 2:58:49 PM 21-129 Surr: DNOP 89.2 %Rec 1 8/18/2022 2:58:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 12:51:00 PM 3.1 mg/Kg 1 Surr: BFB 98.5 37.7-212 %Rec 1 8/18/2022 12:51:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 12:51:00 PM 0.016 mg/Kg 1 Toluene ND 0.031 mg/Kg 1 8/18/2022 12:51:00 PM Ethylbenzene ND 0.031 mg/Kg 1 8/18/2022 12:51:00 PM Xylenes, Total ND 0.062 mg/Kg 1 8/18/2022 12:51:00 PM 8/18/2022 12:51:00 PM Surr: 4-Bromofluorobenzene 97.4 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 12:44:42 PM ma/Ka 20

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

Qualifiers:

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

Page 9 of 13

	ertex Resources Services, Inc. nyx 29 CTB1
Sample ID: MB-6960	SampType: mblk TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 69603 RunNo: 90384
Prep Date: 8/18/202	Analysis Date: 8/18/2022 SeqNo: 3226290 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-696	SampType: Ics TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 69603 RunNo: 90384
Prep Date: 8/18/202	Analysis Date: 8/18/2022 SeqNo: 3226292 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00 0 95.4 90 110

Qualifiers:

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

Page 10 of 13

2208A82

22-Aug-22

	ertex Resources 1yx 29 CTB1	Services	, Inc.										
Sample ID: 2208A82-0	·	Type: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: BES22-01 Prep Date: 8/18/2022		ch ID: 69 Date: 8/			RunNo: 90393 SeqNo: 3225976 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRC) 40	14	46.73	0	85.6	36.1	154						
Surr: DNOP	3.7		4.673		79.8	21	129						
Sample ID: 2208A82-0	01AMSD Samp	туре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID: BES22-01	4' Bate	ch ID: 69	593	F	RunNo: 9	0393							
Prep Date: 8/18/2022	Analysis	Date: 8/	18/2022	S	SeqNo: 3	225977	Units: mg/k	٢g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRC) 44	14	48.12	0	90.9	36.1	154	9.02	33.9				
Surr: DNOP	4.0		4.812		82.3	21	129	0	0				

Qualifiers:

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

Page 11 of 13

2208A82

22-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Onyx 29 (sources S	ervices,	, Inc.							
	•										
Sample ID: 2.5			ype: LC					8015D: Gaso	oline Rang	e	
Client ID: LC:	SS	Batch	n ID: A9	0390	F	RunNo: 9	0390				
Prep Date:		Analysis D	ate: 8/	18/2022	S	SeqNo: 3	225322	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB		2200		1000		218	37.7	212			S
Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range											
Client ID: PB	s	Batch	1D: A9	0390	F	RunNo: 9	0390				
Prep Date:		Analysis D	ate: 8/	18/2022	S	SeqNo: 3	225323	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	ND	5.0								
Surr: BFB		1000		1000		103	37.7	212			
Sample ID: 220)8a82-001ams	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: BE	S22-01 4'	Batch	n ID: A9	0390	F	RunNo: 9	0390				
Prep Date:		Analysis D	ate: 8/	18/2022	S	SeqNo: 3	225325	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	25	5.0	25.00	0	99.8	70	130			
Surr: BFB		2100		1000		211	37.7	212			
Sample ID: 220)8a82-001amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: BE	S22-01 4'	Batch	n ID: A9	0390	F	RunNo: 9	0390				
Prep Date:		Analysis D	ate: 8/	18/2022	S	SeqNo: 3	225326	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	24	5.0	25.00	0	97.5	70	130	2.39	20	
Surr: BFB		2100		1000		206	37.7	212	0	0	

Qualifiers:

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

2208A82

22-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

nzene 0.83 0.025 1.000 0 83.4 80 120 nzene 0.86 0.050 1.000 0 85.6 80 120 nylbenzene 0.87 0.050 1.000 0 87.2 80 120 lenes, Total 2.6 0.10 3.000 0 87.1 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 99.7 70 130 ample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles lient ID: PBS Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225328 Units: mg/Kg	ual
rep Date: Analysis Date: 8/18/2022 SeqNo: 3225327 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q nzene 0.83 0.025 1.000 0 83.4 80 120 luene 0.86 0.050 1.000 0 85.6 80 120 nylbenzene 0.87 0.050 1.000 0 87.2 80 120 lenes, Total 2.6 0.10 3.000 0 87.1 80 120 surr: 4-Bromofluorobenzene 1.0 1.000 99.7 70 130 1000 ample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles 1000 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225328 Units: mg/Kg nanjyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	ual
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luene 0.86 0.050 1.000 0 85.6 80 120 hylbenzene 0.87 0.050 1.000 0 87.2 80 120 lenes, Total 2.6 0.10 3.000 0 87.1 80 120 Sur: 4-Bromofluorobenzene 1.0 1.000 99.7 70 130 ample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles lient ID: PBS Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225328 Units: mg/Kg nalyte Result PQL <spk td="" value<=""> SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q</spk>	
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Jenes, Total 2.6 0.10 3.000 0 87.1 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 99.7 70 130 ample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles lient ID: PBS Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225328 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit <q< td=""></q<>	
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rep Date: Analysis Date: 8/18/2022 SeqNo: 3225328 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	
nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	
nzene ND 0.025	ual
luene ND 0.050	
nylbenzene ND 0.050	
lenes, Total ND 0.10	
Surr: 4-Bromofluorobenzene 1.0 1.000 99.6 70 130	
ample ID: 2208a82-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles	
lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390	
rep Date: Analysis Date: 8/18/2022 SeqNo: 3225329 Units: mg/Kg	
nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q	ual
nzene 0.88 0.025 1.000 0 88.2 68.8 120	
luene 0.91 0.050 1.000 0 90.5 73.6 124	
nylbenzene 0.92 0.050 1.000 0 91.9 72.7 129	
lenes, Total 2.8 0.10 3.000 0 91.8 75.7 126	
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lenes, Total 2.8 0.10 3.000 0 91.8 75.7 126	
Jenes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130	
Jenes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles	
vienes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225330 Units: mg/Kg	ual
vienes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225330 Units: mg/Kg	ual
Jenes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225330 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q nzene 0.85 0.025 1.000 0 85.1 68.8 120 3.60 20 luene 0.87 0.050 1.000 0 87.2 73.6 124 3.69 20	ual
Jenes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225330 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q nzene 0.85 0.025 1.000 0 85.1 68.8 120 3.60 20 uene 0.87 0.050 1.000 0 87.2 73.6 124 3.69 20 nylbenzene 0.89 0.050 1.000 0 88.8 72.7 129 3.42 20	ual
Jenes, Total 2.8 0.10 3.000 0 91.8 75.7 126 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130 ample ID: 2208a82-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles lient ID: BES22-02 5' Batch ID: B90390 RunNo: 90390 rep Date: Analysis Date: 8/18/2022 SeqNo: 3225330 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Q nzene 0.85 0.025 1.000 0 85.1 68.8 120 3.60 20 luene 0.87 0.050 1.000 0 87.2 73.6 124 3.69 20	ual

Qualifiers:

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

2208A82

22-Aug-22

			8A82			RcptN	o: 1
Received By: Tracy Casarrubias 8/	18/2022 7:15	5:00 AM					
Completed By: Tracy Casarrubias 8/	18/2022 8:00	0:00 AM					
Reviewed By: KPG 8.18-2	2						
Chain of Custody							
1. Is Chain of Custody complete?		Yes		No		Not Present	
2. How was the sample delivered?		Cou	rier				
<u>Log In</u>							
3. Was an attempt made to cool the samples?		Yes		No			
. Were all samples received at a temperature of >	>0° C to 6 0°C	C Yes		No			
Sample(s) in proper container(s)?		Yes	$\mathbf{\nabla}$	No			
Sufficient sample volume for indicated test(s)?		Yes		No			
Are samples (except VOA and ONG) properly pre-	eserved?	Yes		No			
. Was preservative added to bottles?		Yes		No		NA 🗌	
. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes		No		NA 🔽	
). Were any sample containers received broken?		Yes		No	\checkmark		
1. Does paperwork match bottle labels?		Yes		No		# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Cust	- Auto	Yes		NIZ		(<2 c Adjusted?	or >12 unless noted)
Is it clear what analyses were requested?	.ouy?	Yes		No No		, lajuolou.	/
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No		Checked by:	Jus/18/22
pecial Handling (if applicable)							
5. Was client notified of all discrepancies with this o	order?	Yes		No		NA 🔽	
Person Notified:	- 0	Date:	_		-		
By Whom:		/ia: 🗌 eMa	ail 🗌	Phone	Fax	In Person	
Regarding:							
Client Instructions:							

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Page 1 of 1

Client:					1				Land			
		□ Standard		Rush Samu Davk	Л			ANAL	N L		AALL ENVIKONMEN I AL ANAI YSTS I ABODATOD	
		Project Name:					MUM	www.hallenvironmental.com	- Inviton			
Mailing Address:		1000	29 0781		4	901 Ha	4901 Hawkins NE		Albuqu	reraue	Albuqueraue, NM 87109	
		Project #:					O AF		į	101	1011	
22/20		33E-	100-0EL10-	1 00		EI. 20	1 EL. 202-242-2312	UN	Analysis	Request	rax ouo-345-4107 ysis Request	
email or Fax#:		Project Manager:	ger:				-		*∩		()1	
VQC Package:		tuall	+ shalling	hor	1208) 98M/	_	SMI		19 '70		/pset	
Standard Le	Level 4 (Full Validation)	1		2		-	S0		d l		//tu	
:u	nce	Sampler: CV	0			0.11			103	0	IƏSE	-
NELAC Other		On Ice:	¥ Yes	□ No			-	5	N. "	(A((Pre	
EDD (Type)		# of Coolers:	1					sleta) w.	
		Cooler Temp(including CF):5	(including CF):5.3	-0.1 - 5.2 (°C)				9M 8			olilo	
Date Time Matrix Sam	Sample Name	Container Type and #	Preservative Type	HEAL No.	(XJT8 8:H9T	9 r808	V) 803 PAHs R	АЯЭЯ	8560 (/	S) 0728	D lstoT	
8/17 12:20 Soil 84	8 ESZZ-01 4	205	726	12.1	2			I	_			
1 12:10 1 86	85522-02 5'	-	1	002	1				_			
12:15 80	BES22-05 5'			003								
12:20 80	B & \$222-06 4			P00						_		
12:22	BES22-07 4'			005								
12:30 42	WESS2-41 1'			000								
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:eue:		. 3	UNN NO	8/11/2 1294	Remarks	12	CC: CHO	chanel D Let Bill		Devon		
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Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-09 8' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/18/2022 2:00:00 PM Lab ID: 2208C61-001 Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 13 mg/Kg 1 8/22/2022 10:13:59 AM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 8/22/2022 10:13:59 AM Surr: DNOP 103 21-129 %Rec 8/22/2022 10:13:59 AM 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/22/2022 10:44:00 AM 3.4 mg/Kg 1 Surr: BFB 95.7 37.7-212 %Rec 1 8/22/2022 10:44:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.017 8/22/2022 10:44:00 AM mg/Kg 1 Toluene ND 0.034 mg/Kg 1 8/22/2022 10:44:00 AM Ethylbenzene ND 0.034 mg/Kg 8/22/2022 10:44:00 AM 1 Xylenes, Total ND 0.068 mg/Kg 1 8/22/2022 10:44:00 AM Surr: 4-Bromofluorobenzene 91.1 70-130 %Rec 1 8/22/2022 10:44:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/22/2022 11:57:00 AM mg/Kg 20

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

Qualifiers:	* D H	Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix PREFILINITY Holding times for preparation or analysis exceeded	JA ^B	Analyte detected in the associated Method Blank Estimated value Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	Dana 1 af 0
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 1 of 0
	s	% Recovery outside of range due to dilution or matrix interference			

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-10 8' **Project:** Onyx 29 CTB1 Separator Collection Date: 8/18/2022 2:10:00 PM Lab ID: 2208C61-002 Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** ND 14 mg/Kg 1 8/22/2022 10:37:55 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/22/2022 10:37:55 AM Surr: DNOP 99.0 21-129 %Rec 8/22/2022 10:37:55 AM 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/22/2022 11:03:00 AM 3.1 mg/Kg 1 Surr: BFB 99.5 37.7-212 %Rec 1 8/22/2022 11:03:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.015 8/22/2022 11:03:00 AM mg/Kg 1 Toluene ND 0.031 mg/Kg 1 8/22/2022 11:03:00 AM Ethylbenzene ND 0.031 mg/Kg 8/22/2022 11:03:00 AM 1 Xylenes, Total ND 0.061 mg/Kg 1 8/22/2022 11:03:00 AM Surr: 4-Bromofluorobenzene 91.7 70-130 %Rec 1 8/22/2022 11:03:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/22/2022 12:09:00 PM mg/Kg 20

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

Qualifiers:	* D H	Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded	MINA	Analyte detected in the associated Method Blank Estimated value Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	$\mathbf{D}_{a} = 1 \cdot \mathbf{f} 0$
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 2 of 0
	S	% Recovery outside of range due to dilution or matrix interference	e		

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CT B1 Separator	
Lab ID:	2208G90-001	N

Client Sample ID: WES22 - 45 3' Collection Date: 8/26/2022 9:30:00 AM

Matrix: MEOH (SOIL)

SOIL) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 3:01:56 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2022 3:01:56 AM
Surr: DNOP	91.4	21-129	%Rec	1	8/30/2022 3:01:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	8/27/2022 3:36:00 PM
Surr: BFB	110	37.7-212	%Rec	1	8/27/2022 3:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/27/2022 3:36:00 PM
Toluene	ND	0.040	mg/Kg	1	8/27/2022 3:36:00 PM
Ethylbenzene	ND	0.040	mg/Kg	1	8/27/2022 3:36:00 PM
Xylenes, Total	ND	0.080	mg/Kg	1	8/27/2022 3:36:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/27/2022 3:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 5:47:50 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

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

Page 1 of 0

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CT B1 Separator	
Lab ID:	2208G90-002	I

Client Sample ID: WES22 - 46 3' Collection Date: 8/26/2022 9:35:00 AM

Matrix: MEOH (SOIL) Rece

L) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:13:00 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/30/2022 3:13:00 AM
Surr: DNOP	92.0	21-129	%Rec	1	8/30/2022 3:13:00 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/27/2022 3:56:00 PM
Surr: BFB	103	37.7-212	%Rec	1	8/27/2022 3:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/27/2022 3:56:00 PM
Toluene	ND	0.034	mg/Kg	1	8/27/2022 3:56:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/27/2022 3:56:00 PM
Xylenes, Total	ND	0.068	mg/Kg	1	8/27/2022 3:56:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/27/2022 3:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:25:03 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 0

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.
Project:	Onyx 29 CT B1 Separator
Lab ID:	2208G90-003

Client Sample ID: WES22 - 47 3' Collection Date: 8/26/2022 9:40:00 AM

Matrix: MEOH (SOIL)

(SOIL) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:34:56 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2022 3:34:56 AM
Surr: DNOP	94.6	21-129	%Rec	1	8/30/2022 3:34:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/27/2022 4:16:00 PM
Surr: BFB	111	37.7-212	%Rec	1	8/27/2022 4:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/27/2022 4:16:00 PM
Toluene	ND	0.034	mg/Kg	1	8/27/2022 4:16:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/27/2022 4:16:00 PM
Xylenes, Total	ND	0.068	mg/Kg	1	8/27/2022 4:16:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/27/2022 4:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:37:28 PM

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

Qualifiers:

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

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

Page 3 of 0

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CT B1 Separator	
Lab ID:	2208G90-004	

Client Sample ID: WES22 - 48 3' Collection Date: 8/26/2022 9:45:00 AM

Matrix: MEOH (SOIL)

SOIL) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:45:57 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/30/2022 3:45:57 AM
Surr: DNOP	96.0	21-129	%Rec	1	8/30/2022 3:45:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/27/2022 4:35:00 PM
Surr: BFB	108	37.7-212	%Rec	1	8/27/2022 4:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.019	mg/Kg	1	8/27/2022 4:35:00 PM
Toluene	ND	0.039	mg/Kg	1	8/27/2022 4:35:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/27/2022 4:35:00 PM
Xylenes, Total	ND	0.077	mg/Kg	1	8/27/2022 4:35:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/27/2022 4:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:49:53 PM

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

Qualifiers:

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

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

Page 4 of 0

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CT B1 Separator	
Lab ID:	2208G90-005	N

Client Sample ID: WES22 - 49 1' Collection Date: 8/26/2022 9:50:00 AM

Matrix: MEOH (SOIL)

(SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 3:56:59 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/30/2022 3:56:59 AM
Surr: DNOP	93.8	21-129	%Rec	1	8/30/2022 3:56:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/27/2022 4:55:00 PM
Surr: BFB	109	37.7-212	%Rec	1	8/27/2022 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/27/2022 4:55:00 PM
Toluene	ND	0.037	mg/Kg	1	8/27/2022 4:55:00 PM
Ethylbenzene	ND	0.037	mg/Kg	1	8/27/2022 4:55:00 PM
Xylenes, Total	ND	0.073	mg/Kg	1	8/27/2022 4:55:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/27/2022 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 7:02:17 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

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

Page 5 of 0

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CT B1 Separator	
Lab ID:	2208G90-006	I

Client Sample ID: WES22 - 50 0.5' Collection Date: 8/26/2022 9:55:00 AM

Matrix: MEOH (SOIL) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 4:07:53 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2022 4:07:53 AM
Surr: DNOP	86.0	21-129	%Rec	1	8/30/2022 4:07:53 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/27/2022 5:34:00 PM
Surr: BFB	107	37.7-212	%Rec	1	8/27/2022 5:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/27/2022 5:34:00 PM
Toluene	ND	0.037	mg/Kg	1	8/27/2022 5:34:00 PM
Ethylbenzene	ND	0.037	mg/Kg	1	8/27/2022 5:34:00 PM
Xylenes, Total	ND	0.073	mg/Kg	1	8/27/2022 5:34:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	8/27/2022 5:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 7:14:42 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

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

Page 6 of 0

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208G90

Date Reported:

CLIENT:	Vertex Resources Services, Inc.
Project:	Onyx 29 CT B1 Separator

2208G90-007

Client Sample ID: BES22 - 23 1' Collection Date: 8/26/2022 10:00:00 AM

Matrix: MEOH (SOIL)

(SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 4:18:41 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/30/2022 4:18:41 AM
Surr: DNOP	88.1	21-129	%Rec	1	8/30/2022 4:18:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/27/2022 5:54:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/27/2022 5:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/27/2022 5:54:00 PM
Toluene	ND	0.034	mg/Kg	1	8/27/2022 5:54:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/27/2022 5:54:00 PM
Xylenes, Total	ND	0.068	mg/Kg	1	8/27/2022 5:54:00 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	8/27/2022 5:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 7:27:06 PM

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

Qualifiers:

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

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

Page 7 of 0



June 07, 2022

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

OrderNo.: 2205B74

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Onyx 29 CTB1

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 23 sample(s) on 5/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-001

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-01 0' Collection Date: 5/24/2022 8:30:00 AM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	20	9.6	mg/Kg	1	5/31/2022 3:47:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/31/2022 3:47:57 PM
Surr: DNOP	61.6	51.1-141	%Rec	1	5/31/2022 3:47:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: BFB	91.4	37.7-212	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 2:22:02 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	6/1/2022 10:34:46 PM

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

Page 1 of 31
Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-002

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-02 0' Collection Date: 5/24/2022 8:40:00 AM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 4:11:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 4:11:53 PM
Surr: DNOP	57.9	51.1-141	%Rec	1	5/31/2022 4:11:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: BFB	97.7	37.7-212	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:32:52 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5400	300	mg/Kg	100	6/2/2022 12:06:38 PM

Matrix: SOIL

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

Qualifiers:

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

Page 2 of 31

Project: Onyx 29 CTB1

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-02 2' Collection Date: 5/24/2022 8:45:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-003	Matrix: SOIL	Received Date: 5/26/2022 7:00:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 4:35:37 PM		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 4:35:37 PM		
Surr: DNOP	64.1	51.1-141	%Rec	1	5/31/2022 4:35:37 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 3:56:23 AM		
Surr: BFB	96.6	37.7-212	%Rec	1	5/28/2022 3:56:23 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:56:23 AM		
Toluene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM		
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2022 3:56:23 AM		
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/28/2022 3:56:23 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	2700	150	mg/Kg	50	6/2/2022 12:19:03 PM		

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

Qualifiers:

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

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

Page 3 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-004

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-02 4' Collection Date: 5/24/2022 1:15:00 PM Received Date: 5/26/2022 7:00:00 AM

Eub ID: 2205D71001	Muuliki Boll						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2022 4:59:23 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/31/2022 4:59:23 PM		
Surr: DNOP	59.9	51.1-141	%Rec	1	5/31/2022 4:59:23 PM		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 4:20:05 AM		
Surr: BFB	98.0	37.7-212	%Rec	1	5/28/2022 4:20:05 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.023	mg/Kg	1	5/28/2022 4:20:05 AM		
Toluene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM		
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM		
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 4:20:05 AM		
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/28/2022 4:20:05 AM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	260	61	mg/Kg	20	6/2/2022 12:01:38 AM		

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

Page 4 of 31

H Holding times for preparation or analysis exceeded

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-005

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-03 0' Collection Date: 5/24/2022 8:50:00 AM

Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: ED
Diesel Range Organics (DRO)	4100	95		mg/Kg	10	6/1/2022 12:24:41 PM
Motor Oil Range Organics (MRO)	2400	470		mg/Kg	10	6/1/2022 12:24:41 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	6/1/2022 12:24:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: BFB	93.4	37.7-212		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/28/2022 4:43:44 AM
Toluene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	5500	150		mg/Kg	50	6/2/2022 12:31:27 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-006

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-03 2' Collection Date: 5/24/2022 8:55:00 AM Received Date: 5/26/2022 7:00:00 AM

Eub ID: 2203D71 000	Mutiki Soll						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	240	9.6	mg/Kg	1	6/1/2022 1:12:26 PM		
Motor Oil Range Organics (MRO)	140	48	mg/Kg	1	6/1/2022 1:12:26 PM		
Surr: DNOP	93.2	51.1-141	%Rec	1	6/1/2022 1:12:26 PM		
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 5:30:59 AM		
Surr: BFB	96.0	37.7-212	%Rec	1	5/28/2022 5:30:59 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.025	mg/Kg	1	5/28/2022 5:30:59 AM		
Toluene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM		
Xylenes, Total	ND	0.099	mg/Kg	1	5/28/2022 5:30:59 AM		
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	5/28/2022 5:30:59 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	3700	150	mg/Kg	50	6/2/2022 1:08:39 PM		

Matrix: SOIL

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

Qualifiers:

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

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

Page 6 of 31

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022
Client Sample ID: BH22-04 0'

Project: Onyx 29 CTB1	Collection Date: 5/24/2022 9:00:00 AM						
Lab ID: 2205B74-007	Matrix: SOIL	022 7:00:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	12	9.0	mg/Kg	1	5/31/2022 6:11:58 PM		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/31/2022 6:11:58 PM		
Surr: DNOP	75.3	51.1-141	%Rec	1	5/31/2022 6:11:58 PM		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/28/2022 5:54:36 AM		
Surr: BFB	99.6	37.7-212	%Rec	1	5/28/2022 5:54:36 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/28/2022 5:54:36 AM		
Toluene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 5:54:36 AM		
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	5/28/2022 5:54:36 AM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	98	60	mg/Kg	20	6/2/2022 12:38:51 AM		

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

Qualifiers:

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

Page 7 of 31

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-008

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-05 0' Collection Date: 5/24/2022 9:10:00 AM Received Date: 5/26/2022 7:00:00 AM

Eub ID: 2203D71 000	Mullin Boll						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	29	9.4	mg/Kg	1	5/31/2022 6:36:29 PM		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 6:36:29 PM		
Surr: DNOP	78.6	51.1-141	%Rec	1	5/31/2022 6:36:29 PM		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 6:18:19 AM		
Surr: BFB	93.9	37.7-212	%Rec	1	5/28/2022 6:18:19 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:18:19 AM		
Toluene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM		
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM		
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 6:18:19 AM		
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	5/28/2022 6:18:19 AM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	73	60	mg/Kg	20	6/2/2022 12:51:17 AM		

Matrix: SOIL

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

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

Page 8 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-009

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-06 0' Collection Date: 5/24/2022 9:15:00 AM Received Date: 5/26/2022 7:00:00 AM

Eub ID , E 2000, 1,000	Muulin Soll						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/31/2022 7:00:53 PM		
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 7:00:53 PM		
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:00:53 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 6:41:58 AM		
Surr: BFB	94.5	37.7-212	%Rec	1	5/28/2022 6:41:58 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:41:58 AM		
Toluene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM		
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM		
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 6:41:58 AM		
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/28/2022 6:41:58 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	5000	150	mg/Kg	50	6/2/2022 1:21:03 PM		

Matrix: SOIL

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

Qualifiers:

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

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

Page 9 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-06 2' Collection Date: 5/24/2022 9:20:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-010	Matrix: SOIL	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 7:25:13 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:25:13 PM	
Surr: DNOP	69.8	51.1-141	%Rec	1	5/31/2022 7:25:13 PM	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 7:05:38 AM	
Surr: BFB	91.8	37.7-212	%Rec	1	5/28/2022 7:05:38 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.024	mg/Kg	1	5/28/2022 7:05:38 AM	
Toluene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 7:05:38 AM	
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/28/2022 7:05:38 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	4500	150	mg/Kg	50	6/2/2022 1:33:28 PM	

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

Qualifiers:

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

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

Page 10 of 31

H Holding times for preparation or analysis exceeded

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-06 6' Collection Date: 5/24/2022 1:45:00 PM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-011	Matrix: SOIL Received Date: 5/26/202			2022 7:00:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/31/2022 7:49:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:49:27 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:49:27 PM
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: BFB	92.6	37.7-212	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 7:29:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	6/2/2022 1:28:30 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

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

B Analyte detected in the associated Method Blank

E Estimated value

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

RL Reporting Limit

Page 11 of 31

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-012

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-07 0' Collection Date: 5/24/2022 10:20:00 AM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2022 1:09:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 1:09:32 PM
Surr: DNOP	78.1	51.1-141	%Rec	1	5/27/2022 1:09:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	60	mg/Kg	20	6/2/2022 1:40:54 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 1:54:40 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Toluene-d8	99.1	70-130	%Rec	1	5/27/2022 1:54:40 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 1:54:40 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 12 of 31

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022
Client Sample ID: BH22-08 0'

Project:	Onyx 29 CTB1	Collection Date: 5/24/2022 9:25:00 AM						
Lab ID:	2205B74-013	Matrix: SOIL Received Date: 5/26/2022 7:00:00						
Analyses		Result	RL Q)ual	Units	DF	Date Analyzed	
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: SB	
Diesel Ra	ange Organics (DRO)	7100	94		mg/Kg	10	5/27/2022 7:21:06 PM	
Motor Oil	Range Organics (MRO)	4700	470		mg/Kg	10	5/27/2022 7:21:06 PM	
Surr: [DNOP	0	51.1-141	S	%Rec	10	5/27/2022 7:21:06 PM	
EPA ME	THOD 300.0: ANIONS						Analyst: JMT	
Chloride		1300	61		mg/Kg	20	6/2/2022 2:18:07 AM	
EPA ME	THOD 8260B: VOLATILES S	HORT LIST					Analyst: JR	
Benzene		ND	0.024		mg/Kg	1	5/27/2022 3:20:57 PM	
Toluene		ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM	
Ethylben	zene	ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM	
Xylenes,	Total	ND	0.095		mg/Kg	1	5/27/2022 3:20:57 PM	
Surr: 1	1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	5/27/2022 3:20:57 PM	
Surr: 4	1-Bromofluorobenzene	101	70-130		%Rec	1	5/27/2022 3:20:57 PM	
Surr: [Dibromofluoromethane	114	70-130		%Rec	1	5/27/2022 3:20:57 PM	
Surr: 1	Foluene-d8	98.1	70-130		%Rec	1	5/27/2022 3:20:57 PM	
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE					Analyst: JR	
Gasoline	Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2022 3:20:57 PM	
Surr: E	3FB	109	70-130		%Rec	1	5/27/2022 3:20:57 PM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

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

Page 13 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-014

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-08 2' Collection Date: 5/24/2022 9:30:00 AM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	76	10	mg/Kg	1	5/27/2022 1:33:59 PM
Motor Oil Range Organics (MRO)	72	50	mg/Kg	1	5/27/2022 1:33:59 PM
Surr: DNOP	98.3	51.1-141	%Rec	1	5/27/2022 1:33:59 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4700	150	mg/Kg	50	6/2/2022 1:45:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 4:47:23 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/27/2022 4:47:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 4:47:23 PM

Matrix: SOIL

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

Qualifiers:

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

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

Page 14 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-08 5' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 1:40:00 PM Lab ID: 2205B74-015 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) 120 9.4 mg/Kg 1 5/27/2022 1:58:24 PM Diesel Range Organics (DRO) ND mg/Kg 1 5/27/2022 1:58:24 PM Motor Oil Range Organics (MRO) ND mg/Kg 5/27/2022 1:58:24 PM 1 Motor Oil Range Organics (MRO) 120 47 mg/Kg 1 5/27/2022 1:58:24 PM Surr: DNOP %Rec 1 5/27/2022 1:58:24 PM Surr: DNOP 104 51.1-141 %Rec 1 5/27/2022 1:58:24 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 720 60 20 6/2/2022 2:42:57 AM mg/Kg **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR Benzene ND 0.025 mg/Kg 1 5/27/2022 5:16:12 PM Toluene ND 0.050 mg/Kg 5/27/2022 5:16:12 PM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/27/2022 5:16:12 PM Xylenes, Total ND 0.099 mg/Kg 5/27/2022 5:16:12 PM 1 Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 1 5/27/2022 5:16:12 PM Surr: 4-Bromofluorobenzene 97 9 70-130 %Rec 1 5/27/2022 5:16:12 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 5/27/2022 5:16:12 PM Surr: Toluene-d8 70-130 %Rec 5/27/2022 5:16:12 PM 96.8 1 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND 5.0 mg/Kg 5/27/2022 5:16:12 PM 1 Surr: BFB 108 70-130 5/27/2022 5:16:12 PM %Rec 1

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 31

Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 **CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH22-09 0' Onyx 29 CTB1 Collection Date: 5/24/2022 9:35:00 AM 2205B74-016 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) mg/Kg 5/31/2022 12:32:21 PM 16 9.3 1 Motor Oil Range Organics (MRO) ND 1 5/31/2022 12:32:21 PM 47 mg/Kg 82.5 51.1-141 %Rec 1 5/31/2022 12:32:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Λ Λ

370	60	mg/Kg	20	6/2/2022 2:55:22 AM
				Analyst: JR
ND	0.024	mg/Kg	1	5/27/2022 5:45:01 PM
ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
ND	0.098	mg/Kg	1	5/27/2022 5:45:01 PM
102	70-130	%Rec	1	5/27/2022 5:45:01 PM
102	70-130	%Rec	1	5/27/2022 5:45:01 PM
116	70-130	%Rec	1	5/27/2022 5:45:01 PM
98.6	70-130	%Rec	1	5/27/2022 5:45:01 PM
				Analyst: JR
ND	4.9	mg/Kg	1	5/27/2022 5:45:01 PM
109	70-130	%Rec	1	5/27/2022 5:45:01 PM
	ND ND ND 102 102 116 98.6	ND 0.024 ND 0.049 ND 0.098 102 70-130 102 70-130 116 70-130 98.6 70-130 ND 4.9	ND 0.024 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.098 mg/Kg 102 70-130 %Rec 102 70-130 %Rec 116 70-130 %Rec 98.6 70-130 %Rec ND 4.9 mg/Kg	ND 0.024 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.098 mg/Kg 1 ND 0.098 mg/Kg 1 102 70-130 %Rec 1 102 70-130 %Rec 1 116 70-130 %Rec 1 98.6 70-130 %Rec 1 ND 4.9 mg/Kg 1

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

Qualifiers:

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

Page 16 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 0 **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 9:45:00 AM Lab ID: 2205B74-017 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) 390 9.7 mg/Kg 1 5/27/2022 2:22:47 PM Motor Oil Range Organics (MRO) 370 48 mg/Kg 1 5/27/2022 2:22:47 PM Surr: DNOP 104 51.1-141 %Rec 1 5/27/2022 2:22:47 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 20000 1500 6/2/2022 1:58:16 PM mg/Kg 500 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 5/27/2022 6:13:46 PM Benzene mg/Kg 1 Toluene ND 5/27/2022 6:13:46 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 5/27/2022 6:13:46 PM Xylenes, Total ND 0.098 mg/Kg 1 5/27/2022 6:13:46 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 5/27/2022 6:13:46 PM 1 Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 5/27/2022 6:13:46 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 6:13:46 PM 115 Surr: Toluene-d8 97.1 70-130 %Rec 1 5/27/2022 6:13:46 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 6:13:46 PM 49 1 Surr: BFB 107 70-130 %Rec 1 5/27/2022 6:13:46 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

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

Page 17 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 2' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 9:50:00 AM Lab ID: 2205B74-018 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED Diesel Range Organics (DRO) 49 10 mg/Kg 1 5/31/2022 8:37:47 PM Motor Oil Range Organics (MRO) ND 51 mg/Kg 1 5/31/2022 8:37:47 PM Surr: DNOP 71.7 51.1-141 %Rec 1 5/31/2022 8:37:47 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 7200 300 6/2/2022 2:10:40 PM mg/Kg 100 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 5/27/2022 6:42:26 PM Benzene ND mg/Kg 1 Toluene ND 5/27/2022 6:42:26 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 5/27/2022 6:42:26 PM Xylenes, Total ND 0.097 mg/Kg 1 5/27/2022 6:42:26 PM Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 5/27/2022 6:42:26 PM 1 Surr: 4-Bromofluorobenzene 98.9 70-130 %Rec 1 5/27/2022 6:42:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 6:42:26 PM 116 Surr: Toluene-d8 98.6 70-130 %Rec 1 5/27/2022 6:42:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 6:42:26 PM 48 1 Surr: BFB 109 70-130 %Rec 1 5/27/2022 6:42:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 31

Released to Imaging: 11/22/2022 2:01:52 PM

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 3' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 1:10:00 PM Lab ID: 2205B74-019 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/27/2022 3:11:44 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/27/2022 3:11:44 PM Surr: DNOP 58.5 51.1-141 %Rec 1 5/27/2022 3:11:44 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 430 60 6/2/2022 3:32:36 AM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 5/27/2022 7:11:06 PM Benzene mg/Kg 1 Toluene ND 5/27/2022 7:11:06 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 5/27/2022 7:11:06 PM Xylenes, Total ND 0.094 mg/Kg 1 5/27/2022 7:11:06 PM Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 5/27/2022 7:11:06 PM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 5/27/2022 7:11:06 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 7:11:06 PM 115 Surr: Toluene-d8 99.5 70-130 %Rec 1 5/27/2022 7:11:06 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 7:11:06 PM 47 1 Surr: BFB 109 70-130 %Rec 1 5/27/2022 7:11:06 PM

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-11 0' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 9:55:00 AM Lab ID: 2205B74-020 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/27/2022 3:36:12 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/27/2022 3:36:12 PM Surr: DNOP 51.5 51.1-141 %Rec 1 5/27/2022 3:36:12 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 230 60 6/1/2022 5:14:13 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 5/27/2022 7:39:44 PM Benzene ND mg/Kg 1 Toluene ND 5/27/2022 7:39:44 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 5/27/2022 7:39:44 PM Xylenes, Total ND 0.097 mg/Kg 1 5/27/2022 7:39:44 PM Surr: 1,2-Dichloroethane-d4 96.3 70-130 %Rec 5/27/2022 7:39:44 PM 1 Surr: 4-Bromofluorobenzene 96.2 70-130 %Rec 1 5/27/2022 7:39:44 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 7:39:44 PM 114 Surr: Toluene-d8 100 70-130 %Rec 1 5/27/2022 7:39:44 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 7:39:44 PM 48 1 Surr: BFB 108 70-130 %Rec 1 5/27/2022 7:39:44 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 20 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 0' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 10:05:00 AM Lab ID: 2205B74-021 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/27/2022 4:00:38 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/27/2022 4:00:38 PM Surr: DNOP 59.9 51.1-141 %Rec 1 5/27/2022 4:00:38 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 17000 600 6/2/2022 10:39:49 AM mg/Kg 200 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 5/27/2022 8:08:26 PM Benzene mg/Kg 1 Toluene ND 5/27/2022 8:08:26 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 5/27/2022 8:08:26 PM Xylenes, Total ND 0.099 mg/Kg 1 5/27/2022 8:08:26 PM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 5/27/2022 8:08:26 PM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 5/27/2022 8:08:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 8:08:26 PM 113 Surr: Toluene-d8 101 70-130 %Rec 1 5/27/2022 8:08:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 8:08:26 PM 49 1 Surr: BFB 113 70-130 %Rec 1 5/27/2022 8:08:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 21 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 2' **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 10:10:00 AM Lab ID: 2205B74-022 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/31/2022 9:01:57 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/31/2022 9:01:57 PM Surr: DNOP 58.7 51.1-141 %Rec 1 5/31/2022 9:01:57 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 230 60 6/1/2022 6:03:37 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.025 5/27/2022 8:37:02 PM Benzene ND mg/Kg 1 Toluene ND 5/27/2022 8:37:02 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 5/27/2022 8:37:02 PM Xylenes, Total ND 0.099 mg/Kg 1 5/27/2022 8:37:02 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 5/27/2022 8:37:02 PM 1 Surr: 4-Bromofluorobenzene 98.0 70-130 %Rec 1 5/27/2022 8:37:02 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/27/2022 8:37:02 PM 114 Surr: Toluene-d8 100 70-130 %Rec 1 5/27/2022 8:37:02 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/27/2022 8:37:02 PM 49 1 Surr: BFB 107 70-130 %Rec 1 5/27/2022 8:37:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level
 Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 22 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-03 5' Collection Date: 5/24/2022 1:35:00 PM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-023	Matrix: SOIL	Matrix: SOIL Received Date: 5/26/2022				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	480	9.9	mg/Kg	1	5/27/2022 4:49:38 PM	
Motor Oil Range Organics (MRO)	460	49	mg/Kg	1	5/27/2022 4:49:38 PM	
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 4:49:38 PM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	640	60	mg/Kg	20	6/1/2022 6:15:57 PM	
EPA METHOD 8260B: VOLATILES SH	ORT LIST				Analyst: JR	
Benzene	ND	0.024	mg/Kg	1	5/27/2022 9:05:34 PM	
Toluene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 9:05:34 PM	
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 9:05:34 PM	
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/27/2022 9:05:34 PM	
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 9:05:34 PM	
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 9:05:34 PM	
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: JR	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 9:05:34 PM	
Surr: BFB	105	70-130	%Rec	1	5/27/2022 9:05:34 PM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix

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

Page 23 of 31

Client: Project:	Vertex F Onyx 29	Resources Services, CTB1	Inc.							
Sample ID:	MB-67840	SampType: mb	lk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 678	340	F	RunNo: 88	3422				
Prep Date:	6/1/2022	Analysis Date: 6/	1/2022	S	SeqNo: 31	137024	Units: mg/Kg	3		
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-67840	SampType: Ics		Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 678	340	F	RunNo: 88	3422				
Prep Date:	6/1/2022	Analysis Date: 6/	1/2022	S	SeqNo: 31	137025	Units: mg/Kg	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.6	90	110			
Sample ID:	MB-67832	SampType: mb	lk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 678	332	F	RunNo: 88	3432				
Prep Date:	6/1/2022	Analysis Date: 6/	1/2022	S	SeqNo: 31	137379	Units: mg/Kg)		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-67832	SampType: Ics		Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 678	332	F	RunNo: 88	3432				
Prep Date:	6/1/2022	Analysis Date: 6/	1/2022	S	SeqNo: 31	137380	Units: mg/Kg	9		
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			

Qualifiers:

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

Page 24 of 31

2205B74

07-Jun-22

WO#:

Client: Vertex Re		ervices,	Inc.							
Project: Onyx 29 (
Sample ID: LCS-67737	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 677	737	F	RunNo: 88	3332				
Prep Date: 5/26/2022	Analysis D	Date: 5/ 2	27/2022	S	SeqNo: 31	32996	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.3	64.4	127			
Surr: DNOP	4.1		5.000		81.2	51.1	141			
Sample ID: MB-67737	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 67	737	F	RunNo: 88	3332				
Prep Date: 5/26/2022	Analysis D	Date: 5/ 2	27/2022	S	SeqNo: 31	32997	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	51.1	141			
Sample ID: 2205B74-012AMSD	SampT	уре: МS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH22-07 0'	Batch	n ID: 677	737	F	RunNo: 88	3332				
Prep Date: 5/26/2022	Analysis D	Date: 5/ 2	27/2022	S	SeqNo: 31	34548	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.5	47.66	0	82.1	36.1	154	11.6	33.9	
Surr: DNOP	1.0		4.766		21.5	51.1	141	0	0	S
Sample ID: MB-67765	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 677	765	F	RunNo: 88	3381				
Prep Date: 5/27/2022	Analysis D	Date: 5/	31/2022	S	SeqNo: 31	35345	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.8		10.00		68.2	51.1	141			
Sample ID: 2205B74-012AMS	SampT	ype: MS	<u> </u>	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH22-07 0'	Batch	n ID: 67	737	F	RunNo: 88	3381				
						05070	Units: mg/K	·		
Prep Date: 5/26/2022	Analysis D	Date: 5/	31/2022		SeqNo: 31	35370	ormo. mg/n	g		
Prep Date: 5/26/2022 Analyte	Analysis D Result	0ate: 5/ : PQL		SPK Ref Val	%REC	LowLimit	HighLimit	. g %RPD	RPDLimit	Qual
	•						-	-	RPDLimit	Qual

Qualifiers:

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

2205B74

07-Jun-22

WO#:

Client:Vertex ReProject:Onyx 29	esources S CTB1	ervices,	Inc.							
Sample ID: 2205B74-012AMSE	Samp1	Гуре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH22-07 0'	Batcl	h ID: 677	'37	F	RunNo: 88	3381				
Prep Date: 5/26/2022	Analysis E	Date: 5/3	31/2022	S	SeqNo: 31	135371	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.5	47.66	0	104	36.1	154	8.29	33.9	
Surr: DNOP	2.7		4.766		57.2	51.1	141	0	0	
Sample ID: LCS-67765	SampT	Type: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	h ID: 677	65	F	RunNo: 88	3381				
Prep Date: 5/27/2022	Analysis E	Date: 5/3	31/2022	S	SeqNo: 31	35454	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	64.4	127			
Surr: DNOP	2.7		5.000		53.2	51.1	141			

Qualifiers:

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

Page 26 of 31

WO#: 2205B74 07-Jun-22

	tex Resources Servic x 29 CTB1	es, Inc.							
Sample ID: mb-67730 Client ID: PBS	SampType: Batch ID:	67730	F	RunNo: 88	348	8015D: Gaso	Ū		
Prep Date: 5/26/2022 Analyte Gasoline Range Organics (GR	Analysis Date: Result PQ 0) ND 5		SPK Ref Val	SeqNo: 31 %REC	33399 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Surr: BFB Sample ID: Ics-67730	1000 SampType:	1000 1000 99.9 37.7 212 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS Prep Date: 5/26/2022	Batch ID: Analysis Date:			RunNo: 88 SeqNo: 31		Units: mg/K	ģ		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR Surr: BFB	0) 29 5 2200	.0 25.00 1000	0	116 219	72.3 37.7	137 212			S

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

Page 27 of 31

2205B74

07-Jun-22

WO#:

Surr: BFB	1000		1000		99.9	37.7	212			
Sample ID: Ics-67730	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batc	h ID: 677	730	F	RunNo: 8	8348				
Prep Date: 5/26/2022	Analysis [Date: 5/ 3	27/2022	S	SeqNo: 3	133400	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	72.3	137			
	0000		4000		040	077	040			0

Page 314 of 433

	ertex Resources S 1yx 29 CTB1	Services,	Inc.							
Sample ID: mb-67730	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Bato	h ID: 677	730	F	RunNo: 88	3348				
Prep Date: 5/26/2022	Analysis	Date: 5/2	27/2022	5	SeqNo: 31	33452	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-Bromofluorobenzen	e 1.0		1.000		103	70	130			
Sample ID: LCS-67730	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Bato	ch ID: 677	730	F	RunNo: 88	3348				
Prep Date: 5/26/2022	Analysis	Date: 5/2	27/2022	S	SeqNo: 31	33453	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzen	e 1.0		1.000		101	70	130			

Qualifiers:

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

2205B74

07-Jun-22

WO#:

Page 28 of 31

Client:Vertex RoProject:Onyx 29		Services,	Inc.							
Sample ID: 2205b74-013ams	Samp	Туре: МЅ	4	Tes	tCode: EF	PA Method	8260B: Volati	iles Short	List	
Client ID: BH22-08 0'	Bato	h ID: 677	'32	F	RunNo: 88	8359				
Prep Date: 5/26/2022	Analysis	Date: 5/2	27/2022	S	SeqNo: 31	134178	Units: mg/K	á		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9515	0	96.3	63.5	137	, or tr 2		
Toluene	1.0	0.048	0.9515	0	106	77.6	127			
Ethylbenzene	1.0	0.048	0.9515	0	106	77.9	129			
Xylenes, Total	3.1	0.095	2.854	0	108	76.8	127			
Surr: 1,2-Dichloroethane-d4	0.47		0.4757		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4757		99.5	70	130			
Surr: Dibromofluoromethane	0.53		0.4757		111	70	130			
Surr: Toluene-d8	0.47		0.4757		98.9	70	130			
Sample ID: 2205b74-013amsd	Samp	Туре: МЅ	D4	Tes	tCode: EF	PA Method	8260B: Volati	iles Short	List	
Client ID: BH22-08 0'	Bato	h ID: 677	'32	F	RunNo: 88	8359				
Prep Date: 5/26/2022	Analysis	Date: 5/2	27/2022	5	SeqNo: 31	134179	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9606	0	97.2	63.5	137	1.88	20	
Foluene	0.99	0.048	0.9606	0	103	77.6	127	1.50	20	
Ethylbenzene	1.0	0.048	0.9606	0	104	77.9	129	0.867	20	
Kylenes, Total	3.0	0.096	2.882	0	104	76.8	127	3.53	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4803		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4803		99.3	70	130	0	0	
Surr: Dibromofluoromethane	0.56		0.4803		117	70	130	0	0	
Surr: Toluene-d8	0.48		0.4803		99.4	70	130	0	0	
Sample ID: Ics-67732	Samp	Type: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	iles Short	List	
Client ID: BatchQC	Bato	h ID: 677	'32	F	RunNo: 88	8359				
Prep Date: 5/26/2022	Analysis	Date: 5/2	27/2022	S	SeqNo: 31	134190	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
kylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			

Qualifiers:

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

Page 29 of 31

Released to Imaging: 11/22/2022 2:01:52 PM

2205B74 07-Jun-22

WO#:

Client:

Project:

Client ID:

Prep Date:

Analvte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Qualifiers:

D

Н

ND

PQL

S

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix interference

Released to Imaging: 11/22/2022 2:01:52 PM

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Sample ID: mb-67732

PBS

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

5/26/2022

Vertex Resources Services, Inc.

Result

ND

ND

ND

ND

0.50

0.50

0.57

0.50

SampType: MBLK

Batch ID: 67732

Analysis Date: 5/27/2022

PQL

0.025

0.050

0.050

0.10

SPK value SPK Ref Val

0.5000

0.5000

0.5000

0.5000

Onyx 29 CTB1

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

Page 30 of 31

TestCode: EPA Method 8260B: Volatiles Short List

Units: mg/Kg

130

130

130

130

%RPD

RPDLimit

HighLimit

RunNo: 88359

%REC

99.6

101

113

99.5

SeqNo: 3134191

LowLimit

70

70

70

70

Page	<i>317</i>	of 433
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WO#: 2205B74 07-Jun-22

Qual

Client:	Vertex Re	esources S	ervices,	, Inc.							
Project:	Onyx 29	CTB1									
Sample ID:	2205b74-012ams	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	lange	
Client ID:	BH22-07 0'	Batch	n ID: 67	732	F	RunNo: 88	8359				
Prep Date:	5/26/2022	Analysis D	Date: 5/	27/2022	5	SeqNo: 31	134153	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	25	4.9	24.53	0	103	61.1	127			
Surr: BFB		490		490.7		101	70	130			
Sample ID:	2205b74-012amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline F	ange	
Client ID:	BH22-07 0'	Batch	n ID: 67	732	F	RunNo: 88	8359				
Prep Date:	5/26/2022	Analysis D	Date: 5/	27/2022	S	SeqNo: 31	134154	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24	4.9	24.32	0	98.2	61.1	127	5.80	20	
Surr: BFB		500		486.4		103	70	130	0	0	
Sample ID:	lcs-67732	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	ange	
Client ID:	LCSS	Batch	n ID: 67	732	F	RunNo: 88	8359				
Prep Date:	5/26/2022	Analysis E	Date: 5/	27/2022	Ś	SeqNo: 31	134174	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	93.4	70	130			
Surr: BFB		520		500.0		105	70	130			
Sample ID:	mb-67732	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline F	ange	
Client ID:	PBS	Batch	n ID: 67	732	F	RunNo: 88	8359				
									-		
Prep Date:	5/26/2022	Analysis D	Date: 5/	27/2022	ç	SeqNo: 31	134175	Units: mg/K	g		
Prep Date: Analyte	5/26/2022	Analysis D Result	0ate: 5/ PQL		SPK Ref Val		134175 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Analyte	5/26/2022 ge Organics (GRO)							•	•	RPDLimit	Qual

Qualifiers:

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

2205B74

07-Jun-22

WO#:

Estimated value

ANAL	RONMENT YSIS RATORY	AL	TE	tll Environment A EL: 505-345-39 Website: www.	49 Ibuquer 75 FAX	01 Hawk que. NM : 505-34:	ins NE 87109 5-4107	Sa	mple Log-In C	heck List
Client Name:	Vertex Res Services, I		Work	Order Numb	er: 220	5B74			RcptNo:	1
Received By:	Tracy Cas	sarrubias	5/26/20	022 7:00:00 A	м					
Completed By: Reviewed By:	Tracy Cas	sarrubias 26-22	5/26/20	022 8:24:57 A	м					
Chain of Cus	tody									
1. Is Chain of C		lete?			Yes		N		Not Present	
2. How was the					Cou					
Login										
Log In 3. Was an attem	npt made to o	cool the samp	les?		Yes		N	• 🗆	NA 🗌	
4. Were all samp	oles received	l at a tempera	ture of >0° C	to 6.0°C	Yes		N	• 🗆		
5. Sample(s) in	proper conta	iner(s)?			Yes		N	• 🗆		
6. Sufficient sam	iple volume f	or indicated te	st(s)?		Yes		N	•		
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	V	N			
8. Was preserva	tive added to	bottles?			Yes		N		NA 🗌	
9. Received at le	ast 1 vial wit	h headspace ·	<1/4" for AQ \	/OA?	Yes	П	N			
10. Were any san					Yes			• 🔽	# of preserved	
11.Does paperwo (Note discrepa			et.		Yes		N		bottles checked for pH:	>12 unless noted)
2. Are matrices of	correctly iden	tified on Chair	n of Custody?		Yes	\checkmark	N		Adjusted?	STITUE STREET
3. Is it clear what	analyses we	ere requested'	?		Yes		N		/	
4. Were all holdir (If no, notify cu					Yes		N		Checked by:	5/26/m
pecial Handl	ing (if app	olicable)								
15. Was client no			with this order?	?	Yes		N	• 🗆	NA 🔽	
Person	Notified:			Date:					1	
By Who				Via:	∏eM	ail 🗍	Phone [TEav	In Person	
Regardi							. none [
	structions:	[_		_			
16. Additional rer										
17. <u>Cooler Infor</u> Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Cinne	1 Du		
1	0.5	Good	Yes	Jeanin	JearD	ale	Signe	Ъ		
2	3.7	Good	Yes	1					-	
3	1.6	Good	Yes							
4	2.4	Good	Yes							

Page 1 of 1

								I			l	10.000		
Client: Vevtcx	X			☑ Standard	I 🛛 Rush	1 Sharl	Л				Z V		AALL ENVIKONMENTAL ANALYSTS LABOBATOBY	
(CONTRACTOR (CONTRACT)	NOUD	(Devon)		Project Name:					(, inde			
Mailing Address:	C			DMMX	29 CTB			4901 Hawkins NE	awkin	s NF	Albu		www.riaiietiviioliitietiai.com ns NE - Albuquerque NM 87109	
S	+Ul.	e	T	Project #:			-	Tel. 5	05-345	Tel. 505-345-3975	E E	x 505	Fax 505-345-4107	
Phone #:	N			22t	-01720	0				1	Analysis Request	is Re	luest	
email or Fax#:				Project Manager:	ager:		1.000	(0			* 0	-	(tr	
QA/QC Package:		Level 4 (Full Validation)	ation)	MONICA	Peppin		208) s'	PCB's		SWIS	PO4, S		nəsdAtır	:26 AM
1	Az Con Other	□ Az Compliance □ Other		Sampler: C On Ice:	Dixon,	S Courtaur	100.00		and the second		' ^z ON	(A	Sec. 200 A 4 4	
EDD (Type)				# of Coolers: A	える					_	_			
				Cooler Temp(including CF):	5	le Crucklist (°C)			221.P.				1.000	
Date Time Ma	Matrix	Sample Name		Container Type and #	Preservative Tvne	HEAL No.	STEX	08:H4	W) 803	a shas 3 ARDS	ы , न लि	N) 0728		
AL A		CONTRUCTION	E	the second of th		C C	-	4	1			1		
5/24 8:30 \$		BH22-01	,0	1 Hogiar	ice	001	>	/			>	-		
1 8:40	1	BH 22 - 02	,0	P-		our	1			-	-			
8:45	-	BH 22 - 02	2:			SNO					-	-		
1:15		BH 22 - 02	4'			004					-			
8:50		BH 22 - 03	0'			OUS	_					-		
8:55		BH122-03	2'			400								
01:00	.42	BH 22-04	0,			400						-		
9:10		BH122-05	0,			OUA	_				-			
9:15		BH22-06	,0			200								
9:20		BH22-06	2.			010						-		
1:45		BH122-06	0		-	011					-	-		
Lime:	Relinquished by:			Received by:	Via:	Date Time	Remarks:	rks:				, (
24 5:20	Sally	y Cartter		Winning	NO	Shelpo que	-	WOLK	K V	Urder	4	17	50195h07	
Date: Time: Reli	Relinquished by:	by:		Received by:	Varton	Date Time	5	Mirert hill	+	111	Devor	50		e 320 d
~	4 (h			1	1	31 (40/11	N. J	A W F	1 1	1 1 1 1	L'UCV	0		

Client: V044	11Dad	-														
Mailing /	VUNT	Vertex (1	Devon)		⊠ Standard	d b Rush	s how	Л			ALL	L L L		HALL ENVIRONMENTAL	ENTAI	
Mailing A					Project Name:					1		0	2	ANALI SIS LABORALORI	ALCR	- A III
	Address				Ownyx	29 CTB	1		4901 Hawkins NF	lawkin	S NF	- Albu	onmer	www.nailenvironmental.com ins NF - Alburduerdue NM 87100	σ	D: 11/
	DM	1 kul	-		Project #:			-	Tel. 5()5-345	Tel. 505-345-3975		Fax 505	505-345-4107	0	/1/20
Phone #:		N			22E-(07 FIC						Analysis Request	is Re	luest		022 7
email or Fax#:	Fax#:				Project Manag	ager:		-	(0		-	٥¢	-	()t		35.
QA/QC Package:	ackage: ard		Level 4 (Full Validation)	ation)	MOMICA	a Peppin	C.		(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		SMIS	PO4, S	_	nəsdAt		:26 AM
Accreditation:	ation:	□ Az Co	_		Sampler: (DIXON,	SCarthur		2		07287	' ^z ON	()			r
D EDD (Type)	(Type)				# of Coolers:	SP R						' ^ɛ O	dOV			
					Cooler Temp	5	Chucklist (°C)	_				1. A. A. A.				
Date T	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.		08:H9T 991 P6	M) 803	AHS by	Э.)F, В	V) 0728	Dotal Co		
5/24	0	Soil	BH22-07	0'	1 403 Par	ice		>	2							-
1 6	9:25	-	BH 22-08	0	?-	4	510	-				-				
7	9:30		BH22-08	2.		_	hin									-
	1:40		BH22-08	2			210					-	-			-
2	9.35		BH22-09	0,			010					_	-			-
5	9:45		BH 22 - 10	0			410									
2	9:50		BH 22 - 10	2'			810									-
	01:1	-	BH 22 - 10	3,			610									
0-	9:55		BH22-11	0,			020									
1	0:05		BH22-12	0,			120									
1 V	01:01		BH22-12	21			110									
	1:35	-	BH22-03	5'		-	623					-				
Date: Ti	_	Relinquished by:	ed by:		Received by:	Via:	Date Time	Remarks:	rks:							
5/245	0	Sould (y Cartter	1	WWWWW	ONNO	335/23 900	W	WORK	order		20956105	201	05		Pag
5 [05] 301 \900	Time:	Relinquished by:	ed by:	C	Received by:	Hig: Cour	10.00		Direct		bill	Devon	NO			e 321 o
lf n	ecessary, s	samples sub	If necessary, samples submitted to Hall Environmental marke subcentracted to other accredited laboratories.	ty be subce	ntracted to other a	ccredited laboratorie	3. This serves as indrine of this inscribility. Any sub-contracted data will be clearly instated on the analytical react	s nossihilit	Anv su	h-contrac	Had data	will be cle	for the	State and a state	1000	F 43



June 07, 2022

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

RE: Onyx 29 CTB1

OrderNo.: 2205B74

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 23 sample(s) on 5/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-01 0' Collection Date: 5/24/2022 8:30:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-001	Matrix: SOIL	Rece	eived Date:	5/26/2	022 7:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	20	9.6	mg/Kg	1	5/31/2022 3:47:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/31/2022 3:47:57 PM
Surr: DNOP	61.6	51.1-141	%Rec	1	5/31/2022 3:47:57 PM
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: BFB	91.4	37.7-212	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 2:22:02 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	6/1/2022 10:34:46 PM

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

Qualifiers:

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

Page 1 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-02 0' Collection Date: 5/24/2022 8:40:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-002	Matrix: SOIL	Rece	eived Date:	5/26/2	022 7:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 4:11:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 4:11:53 PM
Surr: DNOP	57.9	51.1-141	%Rec	1	5/31/2022 4:11:53 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: BFB	97.7	37.7-212	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:32:52 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5400	300	mg/Kg	100	6/2/2022 12:06:38 PM

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

Qualifiers:

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

Page 2 of 31
Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-02 2' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 8:45:00 AM Lab ID: 2205B74-003 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/31/2022 4:35:37 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/31/2022 4:35:37 PM Surr: DNOP 64.1 51.1-141 %Rec 1 5/31/2022 4:35:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/28/2022 3:56:23 AM 4.9 mg/Kg 1 Surr: BFB 96.6 37.7-212 %Rec 1 5/28/2022 3:56:23 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/28/2022 3:56:23 AM 1 Toluene ND 0.049 mg/Kg 1 5/28/2022 3:56:23 AM Ethylbenzene ND 0.049 mg/Kg 1 5/28/2022 3:56:23 AM Xylenes, Total ND 0.098 mg/Kg 1 5/28/2022 3:56:23 AM Surr: 4-Bromofluorobenzene 97.0 70-130 %Rec 1 5/28/2022 3:56:23 AM Analyst: NAI **EPA METHOD 300.0: ANIONS** Chloride 2700 150 6/2/2022 12:19:03 PM ma/Ka 50

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

Qualifiers:

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

Page 3 of 31

Lab ID:

Analyses

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-02 4' Onyx 29 CTB1 Collection Date: 5/24/2022 1:15:00 PM 2205B74-004 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED **Diesel Range Organics (DRO)** 5/31/2022 4:59:23 PM ND 9.9 mg/Kg 1 Motor Oil Range Organics (MRO) ND 5/31/2022 4:59:23 PM 50 mg/Kg 1 51.1-141 Surr: DNOP 59.9 %Rec 1 5/31/2022 4:59:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/28/2022 4:20:05 AM 4.6 mg/Kg 1 Surr: BFB 98.0 37.7-212 %Rec 1 5/28/2022 4:20:05 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB

					•
Benzene	ND	0.023	mg/Kg	1	5/28/2022 4:20:05 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 4:20:05 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/28/2022 4:20:05 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	260	61	mg/Kg	20	6/2/2022 12:01:38 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 interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-03 0' Collection Date: 5/24/2022 8:50:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-005	ID: 2205B74-005 Matrix: SOIL			Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: ED		
Diesel Range Organics (DRO)	4100	95		mg/Kg	10	6/1/2022 12:24:41 PM		
Motor Oil Range Organics (MRO)	2400	470		mg/Kg	10	6/1/2022 12:24:41 PM		
Surr: DNOP	0	51.1-141	S	%Rec	10	6/1/2022 12:24:41 PM		
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2022 4:43:44 AM		
Surr: BFB	93.4	37.7-212		%Rec	1	5/28/2022 4:43:44 AM		
EPA METHOD 8021B: VOLATILES						Analyst: NSB		
Benzene	ND	0.023		mg/Kg	1	5/28/2022 4:43:44 AM		
Toluene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM		
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM		
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2022 4:43:44 AM		
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	5/28/2022 4:43:44 AM		
EPA METHOD 300.0: ANIONS						Analyst: NAI		
Chloride	5500	150		mg/Kg	50	6/2/2022 12:31:27 PM		

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

Qualifiers:

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

Page 5 of 31

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-03 2' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 8:55:00 AM Lab ID: 2205B74-006 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 240 9.6 mg/Kg 1 6/1/2022 1:12:26 PM Motor Oil Range Organics (MRO) 140 48 mg/Kg 1 6/1/2022 1:12:26 PM 51.1-141 Surr: DNOP 93.2 %Rec 1 6/1/2022 1:12:26 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/28/2022 5:30:59 AM 4.9 mg/Kg 1 Surr: BFB 96.0 37.7-212 %Rec 1 5/28/2022 5:30:59 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 5/28/2022 5:30:59 AM 1 Toluene ND 0.049 mg/Kg 1 5/28/2022 5:30:59 AM Ethylbenzene ND 0.049 mg/Kg 1 5/28/2022 5:30:59 AM Xylenes, Total ND 0.099 mg/Kg 1 5/28/2022 5:30:59 AM 5/28/2022 5:30:59 AM Surr: 4-Bromofluorobenzene 98.5 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 3700 150 6/2/2022 1:08:39 PM ma/Ka 50

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

Qualifiers:

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

Page 6 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-04 0' Collection Date: 5/24/2022 9:00:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-007	Matrix: SOIL	Recei	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	12	9.0	mg/Kg	1	5/31/2022 6:11:58 PM		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/31/2022 6:11:58 PM		
Surr: DNOP	75.3	51.1-141	%Rec	1	5/31/2022 6:11:58 PM		
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/28/2022 5:54:36 AM		
Surr: BFB	99.6	37.7-212	%Rec	1	5/28/2022 5:54:36 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/28/2022 5:54:36 AM		
Toluene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 5:54:36 AM		
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	5/28/2022 5:54:36 AM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	98	60	mg/Kg	20	6/2/2022 12:38:51 AM		

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

Qualifiers:

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

Page 7 of 31

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-05 0' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Collection Date: 5/24/2022 9:10:00 AM Lab ID: 2205B74-008 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 29 9.4 mg/Kg 1 5/31/2022 6:36:29 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/31/2022 6:36:29 PM Surr: DNOP 78.6 51.1-141 %Rec 1 5/31/2022 6:36:29 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/28/2022 6:18:19 AM 4.6 mg/Kg 1 Surr: BFB 93.9 37.7-212 %Rec 1 5/28/2022 6:18:19 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/28/2022 6:18:19 AM 1 Toluene ND 0.046 mg/Kg 1 5/28/2022 6:18:19 AM Ethylbenzene ND 0.046 mg/Kg 1 5/28/2022 6:18:19 AM Xylenes, Total ND 0.092 mg/Kg 1 5/28/2022 6:18:19 AM Surr: 4-Bromofluorobenzene 95.2 70-130 %Rec 1 5/28/2022 6:18:19 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 73 60 6/2/2022 12:51:17 AM ma/Ka 20

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

Qualifiers:

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

Page 8 of 31

Project: Onyx 29 CTB1

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-06 0' Collection Date: 5/24/2022 9:15:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-009	Matrix: SOIL	Rece	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/31/2022 7:00:53 PM		
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 7:00:53 PM		
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:00:53 PM		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 6:41:58 AM		
Surr: BFB	94.5	37.7-212	%Rec	1	5/28/2022 6:41:58 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:41:58 AM		
Toluene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM		
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM		
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 6:41:58 AM		
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/28/2022 6:41:58 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	5000	150	mg/Kg	50	6/2/2022 1:21:03 PM		

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

Qualifiers:

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

Page 9 of 31

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022
Client Sample ID: BH22-06 2'

Project: Onyx 29 CTB1	Collection Date: 5/24/2022 9:20:00 AM						
Lab ID: 2205B74-010	Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM						
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 7:25:13 PM		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:25:13 PM		
Surr: DNOP	69.8	51.1-141	%Rec	1	5/31/2022 7:25:13 PM		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 7:05:38 AM		
Surr: BFB	91.8	37.7-212	%Rec	1	5/28/2022 7:05:38 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	5/28/2022 7:05:38 AM		
Toluene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 7:05:38 AM		
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/28/2022 7:05:38 AM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	4500	150	mg/Kg	50	6/2/2022 1:33:28 PM		

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

Qualifiers:

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

Page 10 of 31

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-011

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-06 6' Collection Date: 5/24/2022 1:45:00 PM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: ED				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/31/2022 7:49:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:49:27 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:49:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: BFB	92.6	37.7-212	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 7:29:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	6/2/2022 1:28:30 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 11 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-012

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-07 0' Collection Date: 5/24/2022 10:20:00 AM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2022 1:09:32 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 1:09:32 PM	
Surr: DNOP	78.1	51.1-141	%Rec	1	5/27/2022 1:09:32 PM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	100	60	mg/Kg	20	6/2/2022 1:40:54 AM	
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JR	
Benzene	ND	0.025	mg/Kg	1	5/27/2022 1:54:40 PM	
Toluene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2022 1:54:40 PM	
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	5/27/2022 1:54:40 PM	
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/27/2022 1:54:40 PM	
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 1:54:40 PM	
Surr: Toluene-d8	99.1	70-130	%Rec	1	5/27/2022 1:54:40 PM	
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 1:54:40 PM	
Surr: BFB	107	70-130	%Rec	1	5/27/2022 1:54:40 PM	

Matrix: SOIL

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

Qualifiers:

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

Page 12 of 31

Project: Onyx 29 CTB1

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-08 0' Collection Date: 5/24/2022 9:25:00 AM Pageived Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-013	Matrix: SOIL	Rece	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB		
Diesel Range Organics (DRO)	7100	94	mg/Kg	10	5/27/2022 7:21:06 PM		
Motor Oil Range Organics (MRO)	4700	470	mg/Kg	10	5/27/2022 7:21:06 PM		
Surr: DNOP	0	51.1-141 \$	S %Rec	10	5/27/2022 7:21:06 PM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	1300	61	mg/Kg	20	6/2/2022 2:18:07 AM		
EPA METHOD 8260B: VOLATILES SH	IORT LIST				Analyst: JR		
Benzene	ND	0.024	mg/Kg	1	5/27/2022 3:20:57 PM		
Toluene	ND	0.048	mg/Kg	1	5/27/2022 3:20:57 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 3:20:57 PM		
Xylenes, Total	ND	0.095	mg/Kg	1	5/27/2022 3:20:57 PM		
Surr: 1,2-Dichloroethane-d4	97.7	70-130	%Rec	1	5/27/2022 3:20:57 PM		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 3:20:57 PM		
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 3:20:57 PM		
Surr: Toluene-d8	98.1	70-130	%Rec	1	5/27/2022 3:20:57 PM		
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: JR		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 3:20:57 PM		
Surr: BFB	109	70-130	%Rec	1	5/27/2022 3:20:57 PM		

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

Qualifiers:

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

Page 13 of 31

Lab ID:

Analyses

Surr: DNOP

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-08 2' Collection Date: 5/24/2022 9:30:00 AM

2205B74-014 Matrix: SOIL Received Date: 5/26/2022 7:00:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** 5/27/2022 1:33:59 PM 76 10 mg/Kg 1 Motor Oil Range Organics (MRO) 72 5/27/2022 1:33:59 PM 50 mg/Kg 1 98.3 51.1-141 %Rec 1 5/27/2022 1:33:59 PM EPA METHOD 300 0. ANIONS Applyct: NAI

EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4700	150	mg/Kg	50	6/2/2022 1:45:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 4:47:23 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/27/2022 4:47:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 4:47:23 PM

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

Qualifiers:

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

Page 14 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-015

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-08 5' Collection Date: 5/24/2022 1:40:00 PM Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	120	9.4	mg/Kg	1	5/27/2022 1:58:24 PM
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	5/27/2022 1:58:24 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 1:58:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	720	60	mg/Kg	20	6/2/2022 2:42:57 AM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 5:16:12 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Toluene-d8	96.8	70-130	%Rec	1	5/27/2022 5:16:12 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 5:16:12 PM

Matrix: SOIL

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

Qualifiers:

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

Page 15 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-09 0' Collection Date: 5/24/2022 9:35:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-016	Matrix: SOIL	Rece	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: SB		
Diesel Range Organics (DRO)	16	9.3	mg/Kg	1	5/31/2022 12:32:21 PM		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 12:32:21 PM		
Surr: DNOP	82.5	51.1-141	%Rec	1	5/31/2022 12:32:21 PM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	370	60	mg/Kg	20	6/2/2022 2:55:22 AM		
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JR		
Benzene	ND	0.024	mg/Kg	1	5/27/2022 5:45:01 PM		
Toluene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 5:45:01 PM		
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 5:45:01 PM		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2022 5:45:01 PM		
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 5:45:01 PM		
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 5:45:01 PM		
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: JR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 5:45:01 PM		
Surr: BFB	109	70-130	%Rec	1	5/27/2022 5:45:01 PM		

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

Qualifiers:

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

Page 16 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-10 0' Collection Date: 5/24/2022 9:45:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-017	Matrix: SOIL	Recei	Received Date: 5/26/2022 7:00:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: SB		
Diesel Range Organics (DRO)	390	9.7	mg/Kg	1	5/27/2022 2:22:47 PM		
Motor Oil Range Organics (MRO)	370	48	mg/Kg	1	5/27/2022 2:22:47 PM		
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 2:22:47 PM		
EPA METHOD 300.0: ANIONS					Analyst: NAI		
Chloride	20000	1500	mg/Kg	500	6/2/2022 1:58:16 PM		
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JR		
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:13:46 PM		
Toluene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 6:13:46 PM		
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 6:13:46 PM		
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	5/27/2022 6:13:46 PM		
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 6:13:46 PM		
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 6:13:46 PM		
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: JR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 6:13:46 PM		
Surr: BFB	107	70-130	%Rec	1	5/27/2022 6:13:46 PM		

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

Qualifiers:

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

Page 17 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-10 2' Collection Date: 5/24/2022 9:50:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-018	Matrix: SOIL	Rece	vived Date:	5/26/20	022 7:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	49	10	mg/Kg	1	5/31/2022 8:37:47 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 8:37:47 PM
Surr: DNOP	71.7	51.1-141	%Rec	1	5/31/2022 8:37:47 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7200	300	mg/Kg	100	6/2/2022 2:10:40 PM
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:42:26 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 6:42:26 PM
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 6:42:26 PM

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

Qualifiers:

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

Page 18 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-10 3' Collection Date: 5/24/2022 1:10:00 PM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-019	Matrix: SOIL	Receiv	ed Date:	5/26/2	022 7:00:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/27/2022 3:11:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2022 3:11:44 PM
Surr: DNOP	58.5	51.1-141	%Rec	1	5/27/2022 3:11:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	430	60	mg/Kg	20	6/2/2022 3:32:36 AM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:11:06 PM
Toluene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Toluene-d8	99.5	70-130	%Rec	1	5/27/2022 7:11:06 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 7:11:06 PM

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

Qualifiers:

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

Page 19 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-020

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-11 0' Collection Date: 5/24/2022 9:55:00 AM Received Date: 5/26/2022 7:00:00 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	10	mg/Kg	1	5/27/2022 3:36:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 3:36:12 PM
Surr: DNOP	51.5	51.1-141	%Rec	1	5/27/2022 3:36:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 5:14:13 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:39:44 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 7:39:44 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 7:39:44 PM

Matrix: SOIL

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

Qualifiers:

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

Page 20 of 31

Project: Onyx 29 CTB1

CLIENT: Vertex Resources Services, Inc.

Analytical Report Lab Order 2205B74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2022 Client Sample ID: BH22-12 0' Collection Date: 5/24/2022 10:05:00 AM noiwed Date: 5/26/2022 7:00:00 AM ъ

Lab ID: 2205B74-021	Matrix: SOIL	Received Date: 5/26/2022 7:00:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 4:00:38 PM				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 4:00:38 PM				
Surr: DNOP	59.9	51.1-141	%Rec	1	5/27/2022 4:00:38 PM				
EPA METHOD 300.0: ANIONS					Analyst: NAI				
Chloride	17000	600	mg/Kg	200	6/2/2022 10:39:49 AM				
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: JR				
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:08:26 PM				
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM				
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM				
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:08:26 PM				
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/27/2022 8:08:26 PM				
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 8:08:26 PM				
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/27/2022 8:08:26 PM				
Surr: Toluene-d8	101	70-130	%Rec	1	5/27/2022 8:08:26 PM				
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: JR				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:08:26 PM				
Surr: BFB	113	70-130	%Rec	1	5/27/2022 8:08:26 PM				

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

Qualifiers:

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

Page 21 of 31

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-12 2' Collection Date: 5/24/2022 10:10:00 AM Received Date: 5/26/2022 7:00:00 AM

Lab ID: 2205B74-022	Matrix: SOIL	Recei	ived Date:	5/26/2	022 7:00:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 9:01:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 9:01:57 PM
Surr: DNOP	58.7	51.1-141	%Rec	1	5/31/2022 9:01:57 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 6:03:37 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:37:02 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 8:37:02 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 8:37:02 PM

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

Qualifiers:

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

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

Page 22 of 31

Lab ID:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB1

2205B74-023

Analytical Report Lab Order 2205B74

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-03 5' Collection Date: 5/24/2022 1:35:00 PM Received Date: 5/26/2022 7:00:00 AM

	Muumi Soil	1000	ci cu Dutti	0/20/2	022 7:00:00 7107
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	480	9.9	mg/Kg	1	5/27/2022 4:49:38 PM
Motor Oil Range Organics (MRO)	460	49	mg/Kg	1	5/27/2022 4:49:38 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 4:49:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	640	60	mg/Kg	20	6/1/2022 6:15:57 PM
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 9:05:34 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: BFB	105	70-130	%Rec	1	5/27/2022 9:05:34 PM

Matrix: SOIL

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

Qualifiers:

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

Page 23 of 31

Client: Project:	Vertex Re Onyx 29	esources S CTB1	ervices	, Inc.							
Sample ID: M	IB-67840	SampT	ype: m t	olk	Tes	TestCode: EPA Method 300.0: Anions					
Client ID: PI	BS	Batch	n ID: 67	840	F	RunNo: 8	8422				
Prep Date:	6/1/2022	Analysis D	Date: 6/	1/2022	5	SeqNo: 3	137024	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LO	CS-67840	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LO	CSS	Batch	n ID: 67	840	F	RunNo: 8	8422				
Prep Date:	6/1/2022	Analysis D	Date: 6/	1/2022	S	SeqNo: 3	137025	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	94.6	90	110			
Sample ID: M	IB-67832	SampT	ype: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PI	BS	Batch	n ID: 67	832	F	RunNo: 8	8432				
Prep Date:	6/1/2022	Analysis D	Date: 6/	1/2022	5	SeqNo: 3	137379	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-67832	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LO	CSS	Batch	n ID: 67	832	F	RunNo: 8	8432				
Prep Date: 6	6/1/2022	Analysis D	Date: 6/	1/2022	S	SeqNo: 3	137380	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			

Qualifiers:

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

Page 24 of 31

2205B74

08-Jun-22

Client: Vertex F Project: Onyx 29	Resources Services, Inc. CTB1	
Sample ID: LCS-67737	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67737	RunNo: 88332
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3132996 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	40 10 50.00	
Surr: DNOP	4.1 5.000	81.2 51.1 141
Sample ID: MB-67737	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67737	RunNo: 88332
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3132997 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	~
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	9.2 10.00	92.1 51.1 141
Sample ID: 2205B74-012AMS	SD SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH22-07 0'	Batch ID: 67737	RunNo: 88332
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3134548 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	39 9.5 47.66	
Surr: DNOP	1.0 4.766	21.5 51.1 141 0 0 S
Sample ID: MB-67765	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67765	RunNo: 88381
Prep Date: 5/27/2022	Analysis Date: 5/31/2022	SeqNo: 3135345 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	6.8 10.00	68.2 51.1 141
Sample ID: 2205B74-012AMS	S SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH22-07 0'	Batch ID: 67737	RunNo: 88381
Prep Date: 5/26/2022	Analysis Date: 5/31/2022	SeqNo: 3135370 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	54 10 50.00	-
Surr: DNOP	3.4 5.000	67.5 51.1 141

Qualifiers:

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

2205B74

08-Jun-22

Sample ID: 2205874-012AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH22-07 0' Batch ID: 67737 RunNo:: 8831 Prep Date: 5/26/2022 Analysis Date: 5/31/2022 SeqNo:: 3135371 Units:: mg/Kg Analyte Result POL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit Qual Diesel Range Organics (DRO) 50 9.5 47.66 0 104 3.6.1 144 8.29 33.9 Sum:DNOP 2.7 4.766 57.2 51.1 141 0 0 0 Sample ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015MD: Diesel Range Organics Client ID: LCSS Batch ID: 67755 RunNo: 8831 Units:: mg/Kg Analyte SampType: SampType: SampType: SampType: Sizee S	Client:	Vertex Re	sources Serv	ices, Inc.							
Client ID: B422-07 0' Batch ID: 67737 RunNo: 89381 Units: mg/Kg Analyte Result POL SPK value	Project:	Onyx 29 0	CTB1								
Client ID: B422-07 0' Batch ID: 67737 RunNo: 89381 Units: mg/Kg Analyte Result POL SPK value	Sample ID:	2205B74-012AMSI			То		Method	8015M/D: Die	sol Pange	Organics	
Prep Date: 5/26/2022 Analysis Date: 5/31/2022 SeqNo: 3135371 Units: mg/kg Analyte Result POL SPK value SPK Kel Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DR0) 50 9.5 47.66 0 104 36.1 154 8.29 33.9 Sum: DNOP 2.7 4.766 57.2 51.1 1141 0 0 Sample ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Clinit Qual Analyte Result POL SPK value SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DR0) 46 10 50.00 53.2 51.1 141 Sec Sum: DNOP 2.7 5.000 53.2 Sec1.1 141 Sec Analysis Date: 63/2022 SeqNo: 3138396 Units: '%RPD RPDLimit								001011/D. Dic.	sermange	, organics	
Analyte Result POL SPK Ref Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 50 9.5 47.66 0 104 36.1 154 8.29 33.9 Sur: DNOP 2.7 4.766 57.2 51.1 111 0 0 Sample ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: CS-67765 RunNo: 88381 Notice Sampte ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Qual Analyte Result POL SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 46 10 50.00 92.9 64.4 127 Sampte ID: MB-7821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Prep Date: 671/2022 Analysis Date: 673/2022 SeqNo								Units: ma/Ka			
Dissel Range Organics (DRO) 50 9.5 47.66 0 104 36.1 154 8.29 33.9 Surr. DNOP 2.7 4.766 57.2 51.1 141 0 0 Sample ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67765 RunNo: 88381 Prep Date: 5/27/2022 Analysis Date: 5/31/2022 SeqNo: 3135454 Units: mg/Kg Analyte Result PQL <spk td="" value<=""> SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Beel Range Organics (DRO) 46 10 50.00 9.2.9 64.4 127 Sur: DNOP 2.7 5.000 53.2 51.1 141 Gual Sample ID: MB-67821 SampType: MBLK TestCode:: EPA Method 8015M/D: Diesel Range Organics Client ID: CSS Batch ID: 67821 RunNo: 88418 Qual Sur: DNOP 9.0 10.00 90.0 51.1 141 Qual <</spk>		512012022									
Sur: DNOP 2.7 4.766 57.2 51.1 141 0 0 Sample ID: LCS-67765 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67765 RunNo: 88381 Units: mg/Kg Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67765 RunNo: 88381 Units: mg/Kg Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: CSS Batch ID: 67765 SampKg Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: CSS Batch ID: 67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Vertex Code: EPA Method 8015M/D: Diesel Range Organics Client ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCS-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCS-67821 SampType: MBLK<	,							-			Qual
Client ID: LCSS Batch ID: 67765 RunNo: 88381 Units: mg/Kg Prep Date: 5/27/2022 Analysis Date: 5/31/2022 SeqNo: 3135454 Units: mg/Kg Analyte Result PQL SPK Kafue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 46 10 50.00 0 92.9 64.4 127 Surr: DNOP 2.7 5.000 53.2 51.1 141 141 Sample ID: MB-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 673/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK Value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.0 10.00 90.0 51.1 141 141 141 141 141 141 141 141 141 141 141<	-					-		-			
Client ID: LCSS Batch ID: 67765 RunNo: 88381 Units: mg/kg Analysis Date: 5/37/2022 Analysis Date: 5/31/2022 SeqNo: 3135454 Units: mg/kg Analyte Result PQL SPK kalue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 46 10 50.00 0 92.9 64.4 127 Surr: DNOP 2.7 5.000 53.2 51.1 141 141 Sample ID: MB-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 673/2022 SeqNo: 3138396 Units: %RPC RPDLimit Qual Surr: DNOP 9.0 10.00 90.0 51.1 141 141 141 141 Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID:	Comple ID:	1.00.07705	CompTure		Та		Mathad			0	
Prep Date: 5/27/2022 Analysis Date: 5/31/2022 SeqNo: 3135454 Units: mg/Kg Analyte Result PQL SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Desel Range Organics (DRO) 46 10 50.00 0 92.9 64.4 127 Surr: DNOP 2.7 5.000 53.2 51.1 141 50.00 51.1 141 50.00 50.00 50.00 51.1 141 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00								8015M/D: Dies	sel Range	organics	
Analyte Result PQL SPK value								Lipito: ma/Ka			
Diese/Range Organics (DRO) 46 10 50.00 92.9 64.4 127 Surr: DNOP 2.7 5.000 53.2 51.1 141 Sample ID: MB-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur: DNOP 9.0 10.00 90.0 51.1 141 141 Sample ID: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 RunNo: 88418 111 141 111		5/2//2022	-								
Surr: DNOP 2.7 5.00 53.2 51.1 141 Sample ID: MB-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.0 10.00 90.0 51.1 141 Qual Surr: DNOP 9.0 10.00 90.0 51.1 141 Qual Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67871 RunNo: 88418 Qu	,							0	%RPD	RPDLimit	Qual
Sample ID: MB-67821 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK xalue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.0 10.00 90.0 51.1 141 Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138397 Units: %Rec Analyte Result PQL SPK xalue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141 <	-	Diganics (DRO)	-								
Client ID: PBS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur: DNOP 9.0 10.00 90.0 51.1 141 Qual Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 RunNo: 88418 Sample ID: LCS Batch ID: 67821 RunNo: 88418 Sur: DNOP 3.8 5.000 76.1 51.1 141 <											
Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138396 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.0 10.00 9.0 51.1 141 Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141 Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID:								8015M/D: Dies	sel Range	e Organics	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP9.010.0090.051.1141141141141141Sample ID:LCS-67821SampType:LCSTestCode:EPA Method 8015M/D:Diesel Range Organics141Sample ID:LCSsBatch ID:67821RunNo:88418141141141Prep Date:6/1/2022Analysis Date:6/3/2022SeqNo:3138397Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP3.85.00076.151.1141141141141141Sample ID:MB-67871SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range Organics14066Client ID:PBSBatch ID:67871RunNo:88418141141141Prep Date:6/2/2022Analysis Date:6/4/2022SeqNo:3140066Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP9.710.0096.651.1141141141141141141Sample ID:LCS-67871SampType:LCSTestCode:EPA Method 8015M/D:Diesel Range Organics141 <t< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		-									
Surr: DNOP 9.0 10.00 90.0 51.1 141 Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138397 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141 Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 96.6 51.1 141 Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D	Prep Date:	6/1/2022	Analysis Date	6/3/2022	:	SeqNo: 313	8396	Units: %Rec			
Sample ID: LCS-67821 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138397 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141 Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 96.6 51.1 141 <								-	%RPD	RPDLimit	Qual
Client ID: LCSS Batch ID: 67821 RunNo: 88418 Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138397 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141 Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 96.6 51.1 141 Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: LCS-67871	Surr: DNOP		9.0	10.	00	90.0	51.1	141			
Prep Date: 6/1/2022 Analysis Date: 6/3/2022 SeqNo: 3138397 Units: %Rec Analyte Result PQL SPK value SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.8 5.000 76.1 51.1 141	Sample ID:	LCS-67821	SampType	: LCS	Tes	stCode: EPA	Method	8015M/D: Die:	sel Range	e Organics	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP3.85.00076.151.1141141Sample ID:MB-67871SampType:MBLKTestCode:EPA Method 8015M/D: Diesel Range OrganicsClient ID:PBSBatch ID:67871RunNo:88418Prep Date:6/2/2022Analysis Date:6/4/2022SeqNo:3140066Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP9.710.0096.651.1141141141Sample ID:LCS-67871SampType:LCSTestCode:EPA Method 8015M/D: Diesel Range OrganicsClient ID:LCSSBatch ID:67871RunNo:88418Prep Date:6/2/2022Analysis Date:6/4/2022SeqNo:3140074Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Client ID:	LCSS	Batch ID	67821	I	RunNo: 884	18				
Surr: DNOP3.85.00076.151.1141Sample ID: MB-67871SampType: MBLKTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:PBSBatch ID: 67871RunNo: 88418Prep Date:6/2/2022Analysis Date:6/4/2022SeqNo:3140066Units: %RecAnalyteResultPQLSurr: DNOP9.710.009.710.0096.651.1141Sample ID:LCS-67871SampType:LCSBatch ID:67871RunNo:88418Prep Date:6/2/2022Analysis Date:6/4/2022SeqNo:3140074Units:%RecAnalysis Date:6/4/2022SeqNo:3140074Units:%RecAnalysis Date:6/4/2022SeqNo:3140074Units:%RecAnalysis Date:6/4/2022SeqNo:3140074Units:%RPDResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Prep Date:	6/1/2022	Analysis Date	6/3/2022	:	SeqNo: 313	8397	Units: %Rec			
Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67871 RunNo: 88418	Analyte		Result P	QL SPK va	ue SPK Ref Val	%REC L	_owLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: PBS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 96.6 51.1 141 Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD init Qual	Surr: DNOP		3.8	5.0	00	76.1	51.1	141			
Client ID: PBS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 96.6 51.1 141 Client ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67871 RunNo: 88418 Units: %Rec Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID:	MB-67871	SampType	: MBLK	Tes	tCode: EPA	Method	8015M/D: Die:	sel Range	e Organics	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur: DNOP 9.7 10.00 96.6 51.1 141	Client ID:	PBS	Batch ID	: 67871					-	-	
Surr: DNOP 9.7 10.00 96.6 51.1 141 Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date:	6/2/2022	Analysis Date	6/4/2022	:	SeqNo: 314	0066	Units: %Rec			
Surr: DNOP 9.7 10.00 96.6 51.1 141 Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte		Result P	OI SPK va	ue SPK Ref Val	%RFC I	owl imit	Highl imit	%RPD	RPDI imit	Qual
Client ID: LCSS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								0			
Client ID: LCSS Batch ID: 67871 RunNo: 88418 Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID:	LCS-67871	SampType	: LCS	Tes	tCode: EPA	Method	8015M/D: Dies	sel Range	e Organics	
Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual									5	-	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								Units: %Rec			
	Analyte								%RPD	RPDI imit	Qual
	Surr: DNOP		4.9			98.0	51.1	141			Qual

Qualifiers:

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

Page 26 of 31

2205B74

08-Jun-22

	rtex Resources S yx 29 CTB1	Services	, Inc.							
Sample ID: mb-67730 Client ID: PBS	·	SampType: MBLK Batch ID: 67730			tCode: Ef tunNo: 8		8015D: Gasc	oline Rang	e	
Prep Date: 5/26/2022	Analysis	Date: 5/	27/2022	S	eqNo: 3	133399	Units: mg/ #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR Surr: BFB	0) ND 1000	5.0	1000		99.9	37.7	212			
Sample ID: Ics-67730	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Bato	h ID: 67	730	F	unNo: 8	8348				
Prep Date: 5/26/2022	Analysis	Analysis Date: 5/27/2022			SeqNo: 3133400			٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	.0) 29	5.0	25.00	0	116	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix interference
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- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 31

WO#: 2205B74 08-Jun-22

Client:Vertex RProject:Onyx 29	Resources S CTB1	Services,	, Inc.							
Sample ID: mb-67730	Samp	SampType: MBLK			tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 67730			F	RunNo: 8	8348				
Prep Date: 5/26/2022	Analysis Date: 5/27/2022			S	SeqNo: 3	133452	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			
Sample ID: LCS-67730	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 67	730	F	RunNo: 8	8348				
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	S	SeqNo: 3	133453	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

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

Page 28 of 31

2205B74

08-Jun-22

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Project: Onyx 29	CTB1	services,	, mc.								
Sample ID: 2205b74-013ams	Samp	Гуре: М \$	64	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BH22-08 0'	Batc	h ID: 67	732	F	RunNo: 88359						
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	5	SeqNo: 3134178			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.024	0.9515	0	96.3	63.5	137				
Toluene	1.0	0.048	0.9515	0	106	77.6	127				
Ethylbenzene	1.0	0.048	0.9515	0	106	77.9	129				
Xylenes, Total	3.1	0.095	2.854	0	108	76.8	127				
Surr: 1,2-Dichloroethane-d4	0.47		0.4757		98.2	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.4757		99.5	70	130				
Surr: Dibromofluoromethane	0.53		0.4757		111	70	130				
Surr: Toluene-d8	0.47		0.4757		98.9	70	130				
Sample ID: 2205b74-013ams	d Samp ⁻	Гуре: М	SD4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID: BH22-08 0'	Batc	h ID: 67	732	F	RunNo: 88359						
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	5	SeqNo: 3	134179	Units: mg/k	٢g			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.024	0.9606	0	97.2	63.5	137	1.88	20		
Toluene	0.99	0.048	0.9606	0	103	77.6	127	1.50	20		
Ethylbenzene	1.0	0.048	0.9606	0	104	77.9	129	0.867	20		
Xylenes, Total	3.0	0.096	2.882	0	104	76.8	127	3.53	20		
Surr: 1,2-Dichloroethane-d4	0.51		0.4803		106	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.48		0.4803		99.3	70	130	0	0		
Surr: Dibromofluoromethane	0.56		0.4803		117	70	130	0	0		
Surr: Toluene-d8	0.48		0.4803		99.4	70	130	0	0		
Sample ID: Ics-67732	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID: BatchQC	Batc	h ID: 67	732	F	RunNo: 8	8359					
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	S	SeqNo: 3	134190	Units: mg/H	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	96.4	80	120				
Toluene	0.99	0.050	1.000	0	99.0	80	120				
Ethylbenzene	1.0	0.050	1.000	0	100	80	120				
Xylenes, Total	3.0	0.10	3.000	0	100	80	120				
	0.52		0.5000		104	70	130				
Surr: 1,2-Dichloroethane-d4											
Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130				
,			0.5000 0.5000		96.0 116	70 70	130 130				

Qualifiers:

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

Page 29 of 31

WO#: 2205B74

WO#:	2205B74
	08-Jun-22

	Resources S 29 CTB1	ervices	, Inc.							
Sample ID: mb-67732	Samp	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 67	732	F	RunNo: 8	8359				
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	S	SeqNo: 3	134191	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	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.50		0.5000		99.5	70	130			

Qualifiers:

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

Page 30 of 31

Client:		esources Se	rvices,	, Inc.							
Project:	Onyx 29	CTB1									
Sample ID:	2205b74-012ams	SampTy	/pe: MS	6	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	BH22-07 0'	Batch	ID: 67	732	F	RunNo: 8	8359				
Prep Date:	5/26/2022	Analysis Da	ate: 5/	27/2022	S	SeqNo: 3	134153	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.9	24.53	0	103	61.1	127			
Surr: BFB		490		490.7		101	70	130			
Sample ID:	2205b74-012amsd	I SampTy	/pe: MS	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	BH22-07 0'	Batch	ID: 67	732	F	RunNo: 8	8359				
Prep Date:	5/26/2022	Analysis Da	ate: 5/	27/2022	S	SeqNo: 3	134154	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	4.9	24.32	0	98.2	61.1	127	5.80	20	
Surr: BFB		500		486.4		103	70	130	0	0	
Sample ID:	lcs-67732	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	LCSS	Batch	ID: 67	732	F	RunNo: 8	8359				
Prep Date:	5/26/2022	Analysis Da	ate: 5/	27/2022	5	SeqNo: 3	134174	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	93.4	70	130			
Surr: BFB		520		500.0		105	70	130			
Sample ID:	mb-67732	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	PBS	Batch	ID: 67	732	F	RunNo: 8	8359				
Prep Date:	5/26/2022	Analysis Da	ate: 5/	27/2022	S	SeqNo: 3	134175	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Ousonine rang	c organics (orto)	ND	0.0								

Qualifiers:

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

Page 31 of 31

2205B74

08-Jun-22

ANAL	ONMENT		TE	ill Environme EL: 505-345-3 Website: www	49 Albuquer 1975 FAX	01 Hawki que. NM 8 505-345	ns NE 87109 -4107	Sar	Page	
Client Name:	Vertex Res Services, I		Work	Order Num	ber: 220	5B74	6		RcptNo: 1	
Received By:	Tracy Cas	sarrubias	5/26/20	022 7:00:00	АМ					
Completed By: Reviewed By:	Tracy Cas	sarrubias 76-22	5/26/20)22 8:24:57 /	АМ					
Chain of Cus	tody									
1. Is Chain of C		lete?			Yes		No		Not Present	
2. How was the	sample deliv	vered?			Cou					
Login										
Log In 3. Was an attem	npt made to o	cool the samp	les?		Yes		No			
4. Were all samp	oles received	l at a tempera	ture of >0° C	to 6.0°C	Yes		No			
5. Sample(s) in	proper conta	iner(s)?			Yes		No			
6. Sufficient sam	ple volume f	or indicated te	st(s)?		Yes		No			
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes		No			
8. Was preserva					Yes		No		NA 🗌	
9. Received at le	ast 1 vial wit	h headspace ·	<1/4" for AQ \	/OA?	Yes		No		NA 🔽	
10. Were any san	nple containe	ers received b	roken?		Yes		No		# of preserved	
11.Does paperwo (Note discrepa			et.		Yes		No		bottles checked for pH: (<2 or >12 unless noted)	
2. Are matrices of	orrectly iden	tified on Chair	of Custody?		Yes	\checkmark	No		Adjusted?	
3. Is it clear what	analyses we	ere requested'	?		Yes		No			
4. Were all holdir (If no, notify cu					Yes		No		Checked by: Star 5/26/20	5
Special Handl	ing (if app	licable)								
15. Was client no	tified of all di	iscrepancies w	with this order?	?	Yes		No			
Person	Notified:			Date:	-			-		
By Who	m:	[Via:	□ eM	ail 🗍 F	hone	Fax	In Person	
Regardi	ng:			0.101				- un		
	structions:					_	_	-		
16. Additional rer	narks:									
17. <u>Cooler Infor</u> Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed I	2.		
1	0.5	Good	Yes	ocarito	Jear D	ale	oigned i	Jy		
2	3.7	Good	Yes	1						
3	1.6	Good	Yes							
4	2.4	Good	Yes					-		

Page 1 of 1

Client: ULV+CX								I					Para (C		'e
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(CONTRACTION (CONTRACT)	December	(Devon)		Project Name:					(C d avon					
Mailing Address:				DWWX	29 CTB			4901 Hawkins NE	awkir	s NF	- Albu		www.italieribiliotifiterital.com		D: 11/
S	AUL			Project #:				Tel. 5	05-345	Tel. 505-345-3975		x 50!	Fax 505-345-4107		/1/20
Phone #:	Ω			2.2t	-01720	0					Analysis Request	is Re	quest		22 7
email or Fax#:				Project Manager:	ager:		1.00	(0			⁺O	-	(tr		35:
QA/QC Package:		Level 4 (Full Validation)	tion)	MONICA	Peppin		208) s'	PCB's		SWIS	PO4, S		nəedA\tr		:26 AM
1.1.1.1.1.1.1.1	 Az Compliance Other 	pliance		Sampler: C On Ice:	Dixon,	S Courtaur			and the second		' ^z ON	(A	A		
EDD (Type)				# of Coolers: NY 1	ANX 1					_	_				
				Cooler Temp(including CF):	5	te Crucklist (°C)			Contract Contract						
Date Time Ma	Matrix	Sample Name	-11	Container Type and #	Preservative Tvne	HEAL No.	BIEX	08:H4	M) 803	d sHA9 8 AADS	а '⊣€с	N) 072			
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8:45	00	BH 22 - 02	2:			SUC					-	-			
1:15	(T)	BH22-02	4'			004					-	-			
8:50	80	BH 22 - 03	0'			OUS									
8:55	00	BH22-03	2'			400									
01:00	120	BH 22-04	0,			~00									
9:10	a	BH122-05	0,			OUA	-				-				
9:15	8	BH22-06	,0			200			51			-			
9:20	(3)	BH22-06	5.			010					F	-			
1:45		BH122-06	6		-	011					-	-			
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					Project Name:					2			0		N OK
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	MQ	n kul	2		Project #.				Tel. 505-345-3975	-345-	3975	Fax	202-	Eax 505-345-4107	
Phone #:	:#:	N			22E-(01720					Ar	alysis	Analysis Request	lest	
email (email or Fax#:				Project Manag	ager:		-		-		[†] 0		()u	
QA/QC Packa	QA/QC Package:		Level 4 (Full Validation)	ation)	MOMICA	a Peppin	6			SMIS		PO₄, S		nəsdAt	
Accrec	Accreditation:		□ Az Compliance □ Other		Sampler: (DIXON,	SCarter					' ^z ON	(۲	nəsər	
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					Cooler Temp	5	Chucklist (°C)	-			təM i		_	lifori	
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.	NXETE 108:H91	∋9 1808	M) 803 d sHAC	8 AADF	8560 (V С)) F, в	S) 0228	DO Isto]	
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	9:50		BH 22 - 10	2'			910								
	01:10		BH 22 - 10	3'			610	_							
	9:55		BH22-11	0'			010								
-	10:05		BH22-12	0'			120					3			
-	10:10		BH22-12	21			110								
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Date:	Time:	Relinquished by:	ed by:		Received by:	Via:	Date Time	Remarks:							
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		NNN-	R J J J J	Y	1000		2/20/66								



June 08, 2022

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

RE: Onyx 29 CTB 1

OrderNo.: 2205C48

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-13 0' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB 1 Collection Date: 5/25/2022 9:10:00 AM Lab ID: 2205C48-001 Matrix: SOIL Received Date: 5/27/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 31 9.6 mg/Kg 1 6/1/2022 2:59:50 PM Motor Oil Range Organics (MRO) 52 48 mg/Kg 1 6/1/2022 2:59:50 PM 51.1-141 Surr: DNOP 89.5 %Rec 1 6/1/2022 2:59:50 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 5/30/2022 3:13:00 AM 4.9 mg/Kg 1 Surr: BFB 82.9 37.7-212 %Rec 1 5/30/2022 3:13:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 mg/Kg 5/30/2022 3:13:00 AM 1 Toluene ND 0.049 mg/Kg 1 5/30/2022 3:13:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/30/2022 3:13:00 AM Xylenes, Total ND 0.097 mg/Kg 1 5/30/2022 3:13:00 AM

85.1

70-130

%Rec

ma/Ka

1

20

5/30/2022 3:13:00 AM

6/2/2022 3:44:01 AM

Analyst: JMT

EPA METHOD 300.0: ANIONS Chloride 250 60

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

Qualifiers:

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

Page 1 of 13

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB 1

Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-13 2' Collection Date: 5/25/2022 9:15:00 AM Received Date: 5/27/2022 7:10:00 AM

Lab ID: 2205C48-002	Matrix: SOIL	Recei	ved Date:	5/27/2	022 7:10:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/1/2022 3:10:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/1/2022 3:10:46 PM
Surr: DNOP	90.3	51.1-141	%Rec	1	6/1/2022 3:10:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 5:11:00 AM
Surr: BFB	87.3	37.7-212	%Rec	1	5/30/2022 5:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	5/30/2022 5:11:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 5:11:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 5:11:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2022 5:11:00 AM
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	5/30/2022 5:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	6/2/2022 3:56:22 AM

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

Qualifiers:

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

Page 2 of 13

Lab ID:

Onyx 29 CTB 1

2205C48-003

Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-14 0' Collection Date: 5/25/2022 9:20:00 AM Received Date: 5/27/2022 7:10:00 AM Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	23	9.2	mg/Kg	1	6/1/2022 11:41:18 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/1/2022 11:41:18 PM
Surr: DNOP	68.6	51.1-141	%Rec	1	6/1/2022 11:41:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2022 5:31:00 AM
Surr: BFB	83.7	37.7-212	%Rec	1	5/30/2022 5:31:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 5:31:00 AM
Toluene	ND	0.048	mg/Kg	1	5/30/2022 5:31:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2022 5:31:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2022 5:31:00 AM
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	5/30/2022 5:31:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	70	60	mg/Kg	20	6/2/2022 4:08:43 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 interference S

Analyte detected in the associated Method Blank в

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

Page 3 of 13
Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-15 0' **CLIENT:** Vertex Resources Services, Inc. **Project:** Onyx 29 CTB 1 Collection Date: 5/25/2022 9:30:00 AM Lab ID: 2205C48-004 Matrix: SOIL Received Date: 5/27/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 6/2/2022 9:57:17 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 6/2/2022 9:57:17 PM Surr: DNOP 98.4 51.1-141 %Rec 1 6/2/2022 9:57:17 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 5/30/2022 6:30:00 AM 4.9 mg/Kg 1 Surr: BFB 87.3 37.7-212 %Rec 1 5/30/2022 6:30:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 mg/Kg 5/30/2022 6:30:00 AM 1 Toluene ND 0.049 mg/Kg 1 5/30/2022 6:30:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/30/2022 6:30:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/30/2022 6:30:00 AM Surr: 4-Bromofluorobenzene 89.1 70-130 %Rec 1 5/30/2022 6:30:00 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 120 60 6/2/2022 4:45:44 AM ma/Ka 20

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

Qualifiers:

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

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

Page 4 of 13

Project:

CLIENT: Vertex Resources Services, Inc.

Onyx 29 CTB 1

Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH22-16 0' Collection Date: 5/25/2022 9:40:00 AM Received Date: 5/27/2022 7:10:00 AM

Lab ID: 2205C48-005	Matrix: SOIL	Rece	ived Date:	5/27/2	022 7:10:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/2/2022 10:21:44 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/2/2022 10:21:44 PM
Surr: DNOP	91.8	51.1-141	%Rec	1	6/2/2022 10:21:44 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 7:29:00 AM
Surr: BFB	88.2	37.7-212	%Rec	1	5/30/2022 7:29:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 7:29:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 7:29:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 7:29:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2022 7:29:00 AM
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	5/30/2022 7:29:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/2/2022 4:58:06 AM

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

Qualifiers:

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

Page 5 of 13

Analytical Report Lab Order 2205C48

Date Reported: 6/8/2022

5/30/2022 7:49:00 AM 5/30/2022 7:49:00 AM

6/2/2022 12:36:26 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-17 0' **Project:** Onyx 29 CTB 1 Collection Date: 5/25/2022 9:50:00 AM Lab ID: 2205C48-006 Matrix: SOIL Received Date: 5/27/2022 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 6/2/2022 10:46:19 PM ND 9.7 mg/Kg 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 6/2/2022 10:46:19 PM 51.1-141 Surr: DNOP 96.5 %Rec 1 6/2/2022 10:46:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 5/30/2022 7:49:00 AM 4.7 mg/Kg 1 Surr: BFB 85.8 37.7-212 %Rec 1 5/30/2022 7:49:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 mg/Kg 5/30/2022 7:49:00 AM 1 Toluene ND 0.047 mg/Kg 1 5/30/2022 7:49:00 AM 5/30/2022 7:49:00 AM

Ethylbenzene	ND	0.047	mg/Kg	1	
Xylenes, Total	ND	0.094	mg/Kg	1	
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	
EPA METHOD 300.0: ANIONS					
Chloride	ND	60	mg/Kg	20	

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

Qualifiers:

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

Page 6 of 13

	Vertex Resources Services, Inc. Onyx 29 CTB 1			
Sample ID: MB-678	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 67841	RunNo: 88422		
Prep Date: 6/1/202	2 Analysis Date: 6/1/2022	SeqNo: 3137026	Units: mg/Kg	
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID: LCS-678	41 SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 67841	RunNo: 88422		
Prep Date: 6/1/202	2 Analysis Date: 6/1/2022	SeqNo: 3137027	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 92.3 90	110	
Sample ID: MB-678	59 SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 67859	RunNo: 88449		
Prep Date: 6/2/202	2 Analysis Date: 6/2/2022	SeqNo: 3138016	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-678	59 SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 67859	RunNo: 88449		
Prep Date: 6/2/202	2 Analysis Date: 6/2/2022	SeqNo: 3138017	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 93.4 90	110	

Qualifiers:

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

Page 7 of 13

2205C48

08-Jun-22

Client: Vertex R	Resources Services, Inc.	
Project: Onyx 29	CTB 1	
Sample ID: LCS-67800	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67800	RunNo: 88383
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3135520 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	51 10 50.00	
Surr: DNOP	4.0 5.000	0 79.2 51.1 141
Sample ID: MB-67800	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67800	RunNo: 88383
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3135522 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	10 10.00	99.5 51.1 141
Sample ID: MB-67801	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67801	RunNo: 88418
Prep Date: 5/31/2022	Analysis Date: 6/1/2022	SeqNo: 3136937 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	6.7 10.00	0 67.1 51.1 141
Sample ID: LCS-67801	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67801	RunNo: 88418
Prep Date: 5/31/2022	Analysis Date: 6/2/2022	SeqNo: 3137868 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	53 10 50.00	0 0 107 64.4 127
Surr: DNOP	4.8 5.000	95.3 51.1 141
Sample ID: 2205C48-003AMS	S SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BH22-14 0'	Batch ID: 67801	RunNo: 88418
Prep Date: 5/31/2022	Analysis Date: 6/2/2022	SeqNo: 3138107 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	57 9.7 48.36	6 23.39 68.9 36.1 154
Surr: DNOP	3.0 4.836	6 62.0 51.1 141

Qualifiers:

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

2205C48

08-Jun-22

Released to 1	Imaging:	11/22/2022	2:01:52	РМ

Page 365 of 433

Client: Project:	interference Onyx 29 CTB 1 interference interference interference interference interference interference										
Sample ID:	2205C48-003AM	SD SampTyp	e: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	BH22-14 0'	Batch I): 67	801	R	tunNo: 88	8418				
Prep Date:	5/31/2022	Analysis Date	e: 6/	/2/2022	S	eqNo: 31	138108	Units: mg/Kg	J		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	76	10	49.80	23.39	106	36.1	154	29.4	33.9	
Surr: DNOP		4.8		4.980		96.0	51.1	141	0	0	
Sample ID:	MB-67871	SampTyp	e: MI	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batch II): 67	871	R	tunNo: 88	8418				
Prep Date:	6/2/2022	Analysis Date	e: 6/	4/2022	S	eqNo: 31	140066	Units: %Rec			
Analyta											
Analyte		Result I	۶QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP			PQL		SPK Ref Val				%RPD	RPDLimit	Qual
Surr: DNOP		9.7		10.00		96.6	51.1	141			Qual
Surr: DNOP Sample ID:	LCS-67871	9.7 SampTyp	e: LC	10.00	Tes	96.6 tCode: EF	51.1 PA Method	141			Qual
Surr: DNOP Sample ID:	LCS-67871 LCSS	9.7 SampTyp Batch IE	e: LC D: 67	10.00 CS 871	Tes	96.6 tCode: EF RunNo: 88	51.1 PA Method 8418	141 8015M/D: Die			Qual
Surr: DNOP Sample ID: Client ID:	LCS-67871 LCSS	9.7 SampTyp Batch II Analysis Date	e: LC D: 67	10.00 S 871 4/2022	Tes	96.6 tCode: EF RunNo: 88	51.1 PA Method 8418	141 8015M/D: Die			Qual

Qualifiers:

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

Page 9 of 13

2205C48

08-Jun-22

Client:Vertex RProject:Onyx 29	esources Services CTB 1	, Inc.							
Sample ID: Ics-67761	SampType: LC	s	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 67	761	F	RunNo: 88	358				
Prep Date: 5/27/2022	Analysis Date: 5/	/29/2022	S	SeqNo: 31	34017	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	24 5.0 1900	25.00 1000	0	94.6 186	72.3 37.7	137 212			
Sample ID: mb-67761	SampType: MI		Too			8015D: Gaso	line Deng		
Client ID: PBS	Batch ID: 67			RunNo: 88		ouion: Gaso	onne Kang	e	
_	-					lipito: ma//	·		
Prep Date: 5/27/2022	Analysis Date: 5/			SeqNo: 31		Units: mg/K	•		
Analyte Gasoline Range Organics (GRO)	Result PQL ND 5.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	ND 5.0 870	1000		87.1	37.7	212			
Sample ID: Ics-67768	SampType: LC	s	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 67	768	F	RunNo: 88	358				
Prep Date: 5/27/2022	Analysis Date: 5/	/30/2022	S	SeqNo: 31	34041	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	93.9	72.3	137			
Surr: BFB	1900	1000		190	37.7	212			
Sample ID: mb-67768	SampType: MI	BLK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 67	768	F	RunNo: 88	358				
Prep Date: 5/27/2022	Analysis Date: 5/	/30/2022	S	SeqNo: 31	34042	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	870	1000		86.6	37.7	212			
Sample ID: 2205c48-003ams	SampType: M	S	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: BH22-14 0'	Batch ID: 67	768	F	RunNo: 88	358				
Prep Date: 5/27/2022	Analysis Date: 5/	/30/2022	S	SeqNo: 31	34045	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 4.8	24.08	0	94.6	70	130			
Surr: BFB	1800	963.4		191	37.7	212			
Sample ID: 2205c48-003amsc	d SampType: MS	SD	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: BH22-14 0'	Batch ID: 67	768	F	RunNo: 88	358				
Prep Date: 5/27/2022	Analysis Date: 5/	/30/2022	S	SeqNo: 31	34046	Units: mg/K	g		

Qualifiers:

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

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 13

WO#: 2205C48

08-Jun-22

Client: Project:	Vertex Re Onyx 29 (esources S CTB 1	ervices	, Inc.									
Sample ID:	2205c48-003amsd	SampT	уре: М	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e			
Client ID:	ent ID: BH22-14 0' Batch ID: 67768 RunNo: 88358												
Prep Date:	5/27/2022	Analysis D	ate: 5/	30/2022	5	eqNo: 3	34046	Units: mg/K					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range	e Organics (GRO)	22	4.8	24.04	0	92.7	70	130	2.20	20			
Surr: BFB		1800		961.5		189	37.7	212	0	0			

Qualifiers:

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

2205C48

08-Jun-22

	Resources S 9 CTB 1	ervices,	Inc.							
Sample ID: Ics-67761	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	h ID: 677	761	R	RunNo: 88	3358				
Prep Date: 5/27/2022	Analysis D	Date: 5/ 2	29/2022	S	SeqNo: 31	134079	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			
Sample ID: mb-67761	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	h ID: 677	761	R	RunNo: 88	3358				
Prep Date: 5/27/2022	Analysis D	Date: 5/2	29/2022	S	SeqNo: 31	134080	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	70	130			
Sample ID: Ics-67768	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	h ID: 677	768	R	RunNo: 88	3358				
Prep Date: 5/27/2022	Analysis D	Date: 5/3	30/2022	S	SeqNo: 31	134102	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.87	0.050	1.000	0	87.0	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			
Sample ID: mb-67768	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	h ID: 677	768	R	RunNo: 88	3358				
Prep Date: 5/27/2022	Analysis D	Date: 5/3	30/2022	S	SeqNo: 31	134103	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

WO#: 2205C48

08-Jun-22

Client:Vertex ReProject:Onyx 29	esources S CTB 1	Services,	Inc.							
Sample ID: 2205c48-004ams	SampT	Гуре: МS	6	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID: BH22-15 0'	Batc	h ID: 67	768	R	unNo: 8	8358				
Prep Date: 5/27/2022	Analysis E	Date: 5/	30/2022	S	eqNo: 3	134107	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9785	0	94.1	68.8	120			
Toluene	0.94	0.049	0.9785	0	96.3	73.6	124			
Ethylbenzene	0.93	0.049	0.9785	0	95.3	72.7	129			
Xylenes, Total	2.8	0.098	2.935	0	94.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9785		91.2	70	130			
Sample ID: 2205c48-004amsd	Samp	Гуре: МS	SD	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID: BH22-15 0'	Batc	h ID: 67	768	R	unNo: 8	8358				
Prep Date: 5/27/2022	Analysis E	Date: 5/	30/2022	S	eqNo: 3	134108	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9804	0	97.4	68.8	120	3.67	20	
Toluene	0.97	0.049	0.9804	0	99.3	73.6	124	3.23	20	
Ethylbenzene	0.97	0.049	0.9804	0	98.9	72.7	129	3.93	20	
Xylenes, Total	2.9	0.098	2.941	0	97.4	75.7	126	3.05	20	
Surr: 4-Bromofluorobenzene	0.89		0.9804		90.5	70	130	0	0	

Qualifiers:

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

WO#: 2205C48

08-Jun-22

Page 370 of 433

ANAL	RONMENTAL YSIS Ratory	Hall Environm TEL: 505-345- Website: ww	490 Albuquerq 3975 FAX:	l Hawkins NE 1e. NM 87109	Sa	mple Log-In Check List
Client Name:	Vertex Resources Services, Inc.	Work Order Nun	nber: 2205	C48		RcptNo: 1
Received By:	Cheyenne Cason	5/27/2022 7:10:00	AM	ch	l	
Completed By:	Tracy Casarrubias	5/27/2022 8:04:14	AM			
Reviewed By:	725/27/22					
Chain of Cus	stody					
1. Is Chain of C	sustody complete?		Yes	v v	lo 🗌	Not Present
2. How was the	sample delivered?		Couri	er		
Log In						
Was an atter	npt made to cool the samp	bles?	Yes		lo 🗌	
4. Were all sam	ples received at a tempera	ature of >0° C to 6.0°C	Yes		lo 🗌	
5. Sample(s) in	proper container(s)?		Yes		lo 🗌	
3. Sufficient sam	ple volume for indicated t	est(s)?	Yes	V N	•	
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes	N	•	
3. Was preserva	tive added to bottles?		Yes	- N	•	
. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes		• 🗆	NA 🔽
	nple containers received b		Yes		• 🔽	
						# of preserved bottles checked
	ork match bottle labels? ancies on chain of custody	N N	Yes [N N		for pH:
	correctly identified on Chai		Yes			(<2 or >12 unless noted) Adjusted?
	t analyses were requested					/
4. Were all holdi	ng times able to be met?		Yes			Checked by CMC 5/27/12
	ustomer for authorization.)					1
	tified of all discrepancies	with this order?	Yes		• 🗆	
Person	Notified:	Date:				
By Who		Via:	eMai	Phone [Fay	In Person
Regardi	ng:				ux	
Client Ir	nstructions:					
6. Additional rer	marks:					
7. Cooler Infor	mation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Dat	e Signed	By	
1	2.1 Good	Yes				

Page 1 of 1

	HALL ENVIRONMENTAL		www.nallenvironmental.com 4901 Hawkins NF - Alburunargua NM 87100	75 Fax 505-345-4107	Analysis			(,€C	r, No (AC) /-ime	8 СРА 8 8260 (V 8270 (Sd Total Co	>								1 olevan	20956105
			www 4901 Hawkins N	Tel. 505-345-3975		_	PCB's O / MR(4.1) 8082 9/DR4	0 0 9 20 9 20 9 20 9 20	v 831 ethod 831 831	(ХЭТВ) 108:НЧТ 808 (М М) ЯОЗ М) АОЗ М) АОЗ АОЗ М) АОЗ АОЗ АОЗ АОЗ АОЗ АОЗ АОЗ АОЗ АОЗ АОЗ									Remarks: durect bill deven	Work ordur
	🗆 Rush		B		-20		Peppin			.1-022.1 (°C)	HEAL No.	00)	602	003	Day	DUJ	000			Date Time R 5 310 327 1040	5/27/zc
Turn-Around Time:	Standard		DW/X 29 CTB		226 - 01720	Project Manager:		Sampler: Salling	lers	Cooler Temp(including CF): 2	Container Preservative Type and # Type						_			Received by: Via:	Received by: Via:
		٩		<u>م</u>				ŭ (# C	Ö	Ŭ Ĥ	0'1	2'	0'	0,	0,	0'			Re	> Ke
Chain-of-Custody Record	(Devon)			ile			Level 4 (Full Validation)	□ Az Compliance			Sample Name	BH 22-13	BH22-13	BI122-14	BH22-15	BI-122 - 16	E1-72H8			lelinquished by: Salluy Caurthalr	d by:
n-of-Cl	ertex (D		SS:	0M			.:	12.5			Matrix	Soil		0	0		-			œ	Relinquished by: $\int a d d$
Chai	Client: UUF		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	D EDD (Type)		Date Time	5/259:10	9:15	9:20	9:30	9:40	1 9:50		1	9	Salar Time:



September 07, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Onyx 29 CTB1 Heater Treater

OrderNo.: 2208I02

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/31/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: WES22-01 0.5' Collection Date: 8/29/2022 10:00:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208I02-001	Matrix: SOIL	Rece	022 7:40:00 AM		
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 8:51:13 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 8:51:13 PM
Surr: DNOP	97.4	21-129	%Rec	1	9/1/2022 8:51:13 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 1:09:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	9/1/2022 1:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 1:09:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 1:09:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 1:09:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 1:09:00 PM
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	9/1/2022 1:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 6:27:20 AM

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

Qualifiers:

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

Page 1 of 15

Project: Onyx 29 CTB1 Heater Treater

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-02 0.5' Collection Date: 8/29/2022 10:05:00 AM Received Date: 8/31/2022 7:40:00 AM

Matrix: SOIL	Rece	Received Date: 8/31/2022 7:40:00 AM				
Result	RL Qu	al Units	DF	Date Analyzed		
ORGANICS				Analyst: DGH		
ND	15	mg/Kg	1	9/1/2022 9:02:15 PM		
ND	49	mg/Kg	1	9/1/2022 9:02:15 PM		
102	21-129	%Rec	1	9/1/2022 9:02:15 PM		
E				Analyst: BRM		
ND	4.8	mg/Kg	1	9/1/2022 1:48:00 PM		
94.8	37.7-212	%Rec	1	9/1/2022 1:48:00 PM		
				Analyst: BRM		
ND	0.024	mg/Kg	1	9/1/2022 1:48:00 PM		
ND	0.048	mg/Kg	1	9/1/2022 1:48:00 PM		
ND	0.048	mg/Kg	1	9/1/2022 1:48:00 PM		
ND	0.096	mg/Kg	1	9/1/2022 1:48:00 PM		
89.9	70-130	%Rec	1	9/1/2022 1:48:00 PM		
				Analyst: JMT		
110	60	mg/Kg	20	9/1/2022 6:39:44 AM		
	Result ORGANICS ND ND 102 E ND 94.8 ND ND ND ND ND ND ND 89.9	Result RL Qu CORGANICS ND 15 ND 49 102 21-129 E ND 4.8 94.8 37.7-212 ND 0.024 ND 0.048 ND 0.048 ND 0.096 89.9 70-130	Result RL Qual Units ORGANICS ND 15 mg/Kg ND 49 mg/Kg 102 21-129 %Rec E ND 4.8 mg/Kg 94.8 37.7-212 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.096 mg/Kg 89.9 70-130 %Rec	Result RL Qual Units DF CORGANICS ND 15 mg/Kg 1 ND 49 mg/Kg 1 102 21-129 %Rec 1 E ND 4.8 mg/Kg 1 94.8 37.7-212 %Rec 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.096 mg/Kg 1 ND 0.096 mg/Kg 1 89.9 70-130 %Rec 1		

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

Qualifiers:

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

Page 2 of 15

Project:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: WES22-03 0.5' Collection Date: 8/29/2022 10:10:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208102-003	Matrix: SOIL	Received Date: 8/31/2022 7:40:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 9:13:11 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:13:11 PM	
Surr: DNOP	75.8	21-129	%Rec	1	9/1/2022 9:13:11 PM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 2:08:00 PM	
Surr: BFB	92.7	37.7-212	%Rec	1	9/1/2022 2:08:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	9/1/2022 2:08:00 PM	
Toluene	ND	0.050	mg/Kg	1	9/1/2022 2:08:00 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 2:08:00 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2022 2:08:00 PM	
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	9/1/2022 2:08:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	190	60	mg/Kg	20	9/1/2022 8:15:48 AM	

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

Qualifiers:

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

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

Page 3 of 15

Project: Onyx 29 CTB1 Heater Treater

Analytical Report Lab Order 2208I02

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/7/2022 Client Sample ID: WES22-04 0.5' Collection Date: 8/29/2022 10:15:00 AM

Lab ID: 2208102-004	Matrix: SOIL	Rece	eived Date:	8/31/2	022 7:40:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:24:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:24:07 PM
Surr: DNOP	89.3	21-129	%Rec	1	9/1/2022 9:24:07 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 2:27:00 PM
Surr: BFB	95.4	37.7-212	%Rec	1	9/1/2022 2:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 2:27:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 2:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 2:27:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 2:27:00 PM
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	9/1/2022 2:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	170	60	mg/Kg	20	9/1/2022 8:53:00 AM

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

Qualifiers:

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

Page 4 of 15

2208102-005

Project:

Lab ID:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: WES22-05 2' Collection Date: 8/29/2022 10:20:00 AM Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 9:35:02 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 9:35:02 PM
Surr: DNOP	62.8	21-129	%Rec	1	9/1/2022 9:35:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 2:47:00 PM
Surr: BFB	103	37.7-212	%Rec	1	9/1/2022 2:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 2:47:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 2:47:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 2:47:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2022 2:47:00 PM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	9/1/2022 2:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	150	60	mg/Kg	20	9/1/2022 9:30:13 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 15

Project:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: WES22-06 2' Collection Date: 8/29/2022 10:25:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208102-006	Matrix: SOIL	Rece	ived Date:	8/31/2	022 7:40:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:45:58 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 9:45:58 PM
Surr: DNOP	70.0	21-129	%Rec	1	9/1/2022 9:45:58 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 3:07:00 PM
Surr: BFB	94.2	37.7-212	%Rec	1	9/1/2022 3:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 3:07:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2022 3:07:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 3:07:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2022 3:07:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	9/1/2022 3:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	9/1/2022 9:42:38 AM

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

Qualifiers:

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

Page 6 of 15

Project:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: WES22-07 2' Collection Date: 8/29/2022 10:30:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208I02-007	Matrix: SOIL	Recei	022 7:40:00 AM		
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:56:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:56:52 PM
Surr: DNOP	66.9	21-129	%Rec	1	9/1/2022 9:56:52 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 3:27:00 PM
Surr: BFB	95.4	37.7-212	%Rec	1	9/1/2022 3:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 3:27:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 3:27:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 3:27:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 3:27:00 PM
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/1/2022 3:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	290	60	mg/Kg	20	9/1/2022 2:03:11 PM

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

Qualifiers:

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

Page 7 of 15

Project: Onyx 29 CTB1 Heater Treater

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-08 2' Collection Date: 8/29/2022 10:35:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208I02-008	Matrix: SOIL Received Date: 3		: 8/31/2022 7:40:00 AM		
Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 10:07:44 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/1/2022 10:07:44 PM
Surr: DNOP	76.9	21-129	%Rec	1	9/1/2022 10:07:44 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 3:47:00 PM
Surr: BFB	95.6	37.7-212	%Rec	1	9/1/2022 3:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 3:47:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 3:47:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 3:47:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 3:47:00 PM
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	9/1/2022 3:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	270	60	mg/Kg	20	9/1/2022 2:15:35 PM

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

Qualifiers:

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

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

Page 8 of 15

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2208102-009

Project:

Lab ID:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: BES22-01 1' Collection Date: 8/29/2022 10:40:00 AM Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 10:18:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 10:18:37 PM
Surr: DNOP	73.5	21-129	%Rec	1	9/1/2022 10:18:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 4:07:00 PM
Surr: BFB	94.9	37.7-212	%Rec	1	9/1/2022 4:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:07:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 4:07:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 4:07:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 4:07:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	9/1/2022 4:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	9/1/2022 10:44:40 AM

Matrix: SOIL

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

Qualifiers:

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

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

Page 9 of 15

Project:

Analytical Report Lab Order 2208I02

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

Client Sample ID: BES22-02 1' Collection Date: 8/29/2022 10:45:00 AM Received Date: 8/31/2022 7:40:00 AM

Lab ID: 2208I02-010	Matrix: SOIL		ved Date:	022 7:40:00 AM	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 10:29:27 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 10:29:27 PM
Surr: DNOP	75.3	21-129	%Rec	1	9/1/2022 10:29:27 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 4:26:00 PM
Surr: BFB	96.5	37.7-212	%Rec	1	9/1/2022 4:26:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:26:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 4:26:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 4:26:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2022 4:26:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	9/1/2022 4:26:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	77	60	mg/Kg	20	9/1/2022 10:57:05 AM

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

Qualifiers:

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

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

B Analyte detected in the associated Method Blank

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 10 of 15

Project: Onyx 29 CTB1 Heater Treater

Analytical Report Lab Order 2208I02

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/7/2022 Client Sample ID: BES22-03 4' Collection Date: 8/29/2022 10:50:00 AM Baseived Date: 8/21/2022 7:40:00 AM

Lab ID: 2208I02-011	Matrix: SOIL	Reco	eived Date:	8/31/2	2022 7:40:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 10:40:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 10:40:20 PM
Surr: DNOP	88.9	21-129	%Rec	1	9/1/2022 10:40:20 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 4:46:00 PM
Surr: BFB	93.8	37.7-212	%Rec	1	9/1/2022 4:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:46:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 4:46:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 4:46:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 4:46:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	9/1/2022 4:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT

110

60

mg/Kg

20

9/1/2022 11:09:29 AM

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

Qualifiers:

Chloride

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

Page 11 of 15

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OC SUMMARY REPORT

Analysis Date: 8/31/2022

SampType: mblk

Batch ID: 69907

Analysis Date: 9/1/2022

PQL

PQL

1.5

Result

Result

15

Hall Environmen	ntal Analysis Laborat	cory, Inc.	WO#:	2208I02 07-Sep-22
	n Energy 29 CTB1 Heater Treater			
Sample ID: MB-69900	SampType: mblk	TestCode: EPA Method 300.0: Anions		
Client ID: PBS	Batch ID: 69900	RunNo: 90702		
Prep Date: 8/31/2022	Analysis Date: 8/31/2022	SeqNo: 3243373 Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit	Qual
Chloride	ND 1.5			
Sample ID: LCS-69900	SampType: Ics	TestCode: EPA Method 300.0: Anions		
Client ID: LCSS	Batch ID: 69900	RunNo: 90702		

SPK value SPK Ref Val %REC

0

15.00

SeqNo: 3243374

100

RunNo: 90757

SeqNo: 3244232

LowLimit

TestCode: EPA Method 300.0: Anions

90

Units: mg/Kg

110

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

HighLimit

Chloride	ND	1.5								
Sample ID: LCS-69907	SampTy	pe: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	ID: 69	907	F	tunNo: 9	0757				
Prep Date: 9/1/2022	Analysis Da	te: 9/	1/2022	S	eqNo: 32	244233	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.6	90	110			

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Prep Date:

Sample ID: MB-69907

Prep Date: 9/1/2022

Client ID: PBS

Analyte

Analyte

Chloride

8/31/2022

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

QC SUMMARY REPORT Hall E

Page	386	of 433
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	WO#:	2208102
Environmental Analysis Laboratory, Inc.		07-Sep-22

Client:Devon EnProject:Onyx 29	nergy CTB1 Heater Treater				
Sample ID: LCS-69888	SampType: LCS	TestCode:	PA Method 8015M/D: I	Diesel Range Organi	cs
Client ID: LCSS	Batch ID: 69888	RunNo:	90763		
Prep Date: 8/31/2022	Analysis Date: 9/1/202	2 SeqNo:	3244630 Units: mg	/Kg	
Analyte	Result PQL SPK	value SPK Ref Val %REC	LowLimit HighLimit	: %RPD RPDLir	nit Qual
Diesel Range Organics (DRO)	34 15	50.00 0 69.0	64.4 127		
Surr: DNOP	3.4	5.000 68.2	21 129		
Sample ID: MB-69888	SampType: MBLK	TestCode:	PA Method 8015M/D: I	Diesel Range Organi	cs
Client ID: PBS	Batch ID: 69888	RunNo:	90763		
Prep Date: 8/31/2022	Analysis Date: 9/1/202	2 SeqNo:	3244632 Units: mg	/Kg	
Analyte	Result PQL SPK	value SPK Ref Val %REC	LowLimit HighLimit	: %RPD RPDLir	nit Qual
Diesel Range Organics (DRO)	ND 15				
Motor Oil Range Organics (MRO)	ND 50				
Surr: DNOP	7.5	10.00 75.0	21 129		
Sample ID: LCS-69899	SampType: LCS	TestCode:	PA Method 8015M/D: I	Diesel Range Organi	cs
Client ID: LCSS	Batch ID: 69899	RunNo:	90763		
Prep Date: 8/31/2022	Analysis Date: 9/2/202	2 SeqNo:	3246702 Units: %R	lec	
Analyte	Result PQL SPK	value SPK Ref Val %REC	LowLimit HighLimit	: %RPD RPDLir	nit Qual
Surr: DNOP	5.7	5.000 114	21 129		
Sample ID: MB-69899	SampType: MBLK	TestCode:	PA Method 8015M/D: I	Diesel Range Organi	cs
Client ID: PBS	Batch ID: 69899	RunNo:	90763		
Prep Date: 8/31/2022	Analysis Date: 9/2/202	2 SeqNo:	3246703 Units: %R	lec	
Analyte	Result PQL SPK	value SPK Ref Val %REC	LowLimit HighLimit	: %RPD RPDLir	nit Qual
Surr: DNOP	10	10.00 105	21 129		

Qualifiers:

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

Page 13 of 15

QC SUMMARY REPORT Hall Environm

Page	387	of 433
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AKI KEPUKI	WO#:	2208102
mental Analysis Laboratory, Inc.		07-Sep-22

Client:Devon IProject:Onyx 2	Energy 9 CTB1 Heater Treater			
Sample ID: Ics-69886	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: 69886	RunNo: 90749		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3243798	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25.00	0 103 72.3	137	
Surr: BFB	2200 1000	217 37.7	212	S
Sample ID: mb-69886	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: PBS	Batch ID: 69886	RunNo: 90749		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3243799	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 920 1000	92.1 37.7	212	
Sample ID: Ics-69889	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: 69889	RunNo: 90749		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3243822	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	2100 1000	213 37.7	212	S
Sample ID: mb-69889	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range)
Client ID: PBS	Batch ID: 69889	RunNo: 90749		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3243823	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	940 1000	94.0 37.7	212	

Qualifiers:

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

PQL Practical Quanitative Limit

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

Page 14 of 15

Devon Energy

Client:

Project:

Sample ID: Ics-69886

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Onyx 29 CTB1 Heater Treater

SampType: LCS

В	Analyte	detected	in
D	Analyte	uciccicu	

Estimated value Е

J Analy

В	Analyte detected in the associated Method Blank
-	

In Range

RL Reporting Limit

1 limits			

lyte	detected	l be	low	quantita	tion	limits	

Р	Sample	pН	Not	Iı



Sample Diluted Due to Matrix

Qualifiers:

* D

Н

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

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

	eamp . y	po. _	-							
Client ID: LCSS	Batch I	ID: 698	886	F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis Da	te: 9/	1/2022	S	SeqNo: 3	243846	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.83	0.050	1.000	0	83.1	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.3	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			
Sample ID: mb-69886	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch I	ID: 698	886	F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis Da	te: 9/	1/2022	S	SeqNo: 3	243847	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			
Sample ID: Ics-69889	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch I	ID: 698	889	F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis Da	te: 9/	1/2022	S	SeqNo: 3	243870	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.3	70	130			
Sample ID: mb-69889	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch I	ID: 698	889	F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis Da	te: 9/	1/2022	S	SeqNo: 3	243871	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	70	130			

TestCode: EPA Method 8021B: Volatiles

WO#: 2208102

Page 388 of 433

Page 15 of 15

HALL ENVIRONME ANALYSIS LABORATOR		Hall Environment Ai TEL: 505-345-39 Website: www.	490 Ibuquero 75 FAX:	01 Hawkins NI pue, NM 87109 505-345-4107	E 9 7	San	nple Log-In Check List
Client Name: Devon	Energy	Work Order Numbe	er: 220	8102			RcptNo: 1
Received By: Juan	Rojas	8/31/2022 7:40:00 A	м	4	Juan	E.G	
Completed By: Sean	Livingston	8/31/2022 8:25:41 A	м		5	1	
Reviewed By: Jn 8	5/31/22				1		- 1 01
Chain of Custody							
1. Is Chain of Custody of	complete?		Yes		No		Not Present
2. How was the sample	delivered?		Cou	rier			
Log In							
3. Was an attempt made	e to cool the samples'	?	Yes		No		
4. Were all samples rece	eived at a temperature	e of ≥0° C to 6.0°C	Yes		No		
5. Sample(s) in proper c	ontainer(s)?		Yes		No		
6. Sufficient sample volu	me for indicated test(s)?	Yes		No		
7. Are samples (except \	/OA and ONG) prope	rly preserved?	Yes		No		
8. Was preservative add	ed to bottles?		Yes		No		NA 🗌
9. Received at least 1 via	al with headspace <1/	4" for AQ VOA?	Yes		No		
10. Were any sample con	tainers received brok	en?	Yes		No		# of preserved
11. Does paperwork matc (Note discrepancies o			Yes		No		for pH: (<2-07 >12 unless noted)
12. Are matrices correctly	identified on Chain of	Custody?	Yes	~	No		Adjusted?
13. Is it clear what analyse	es were requested?		Yes		No		10 0.21
14. Were all holding times (If no, notify customer			Yes		No		Checked by: March 0 SI 2
Special Handling (if	applicable)						
15. Was client notified of	all discrepancies with	this order?	Yes		No		NA 🔽
Person Notified By Whom: Regarding: Client Instructio		Date: Via:	🗌 eM	ail 🗌 Phon	ne 🗌] Fax	In Person
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Tem 1 0.9	p °C Condition S Good	Seal Intact Seal No	Seal D	ate Sig	ined	Ву	

Page 1 of 1

Client:	CIIGIII	-01-0	Chain-of-Custody Record	Turn-Around Time:	N.	hoa		H	ALL	EN<	IRO	HALL ENVIRONMENTAL	
	No Imag	1/40	Jevon/vertex	□ Standard Project Name:	e: Rush			A	ANALYSIS	SIS			by OCD
Mailing	g Addres:	2	5, 76	theo	HOTCH	Treater	4901	4901 Hawkins NE		Albuque	arque, NI	Albuquergue, NM 87109	• 11/1
1/20		-		Project #:		1.1	Tel. 5	Tel. 505-345-3975	10	Fax	505-345-4107	4107	[/202
Phone #:	:#:			322	226-01/20-00	202			An	alysis I	Analysis Request		61.
cemail c	email or Fax#:			Project Manager:	ager:					† 0	(ìn		
25:10 22:10 22:10 21 21 21 21 21 21 21 21 21 21	△A/QC Package:		Level 4 (Full Validation)	kent	- stamings	sb	PCB's 30 / MR 312 (802			S '⁺Od	əsdA\tr		20 /11/1
Accred	Accreditation:		Az Compliance	Sampler:	V.		DF	(1.		105'	-		
D NELAC	LAC			On Ice:	P-Yes	□ No	05	⊅ 09	S	N 'S	1.00		
	EDD (Type)			# of Coolers:			(GF	; pc	stals		1.1		
				Cooler Temp(including CF):	(including CF):	() 6-0=0-60	190	leth	•W 8	(14.42)			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	ХЭТВ 08:НЧТ 9 1808	EDB (W	РАНа и ВСВА и	8560 (V	2) 0728 D letoT		
8129	10:00	0 5017		204	ICC	100	11			1			
-	10:05	-	WESZ2-02 0.5'	-	-	222				1			11
	10110	_	LES22-03 0.5'			003			Ľ				1.
	10:15	10	NES22-04 0.5'			٢٩							
2	10:26	5	WES22-05 2'			200							
	10:25	2	LES22-06 2'			مور							
	10:30	0	WES22-07 2'			400							
	10:55	-	LES22.08 2'			Soot			-				
	011:01	0	& ESZZ-01 1'			500							
	50:01	5	BESZZ-02 1'			010							- Mu
-	05:01	-	BESZZ-03 41		-	50	1 1						
Date:	Time:	Relinquished by:	l hed by:	Received by:	Via:	pate Time	Remarks:		10.044000		Nixan		- 1
				aluur	www	1 22	7	Direct	· · · · · · · · · · · · · · · · · · ·	111 2	RITI Devon	2	age
Date:	Time:	Relinquished by:	hed by:	Received by:	Via: 1	Date Time		45	N	1 11	2017		370
waya	100	A, A, e	~~~~	1		unc concio	4	49	C	5	22		IJ

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September 06, 2022

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

OrderNo.: 2208I67

RE: Onyx 29 CTB1 Heater Treater

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/1/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT: Vertex Resources Services, Inc. Onyx 29 CTB1 Heater Treater **Project:** 2208167-001 Lab ID:

Client Sample ID: WES22-09 1' Collection Date: 8/30/2022 11:30:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 5:43:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 5:43:16 PM
Surr: DNOP	96.8	21-129	%Rec	1	9/1/2022 5:43:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 8:49:35 AM
Surr: BFB	95.0	37.7-212	%Rec	1	9/1/2022 8:49:35 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/1/2022 8:49:35 AM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 8:49:35 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 8:49:35 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 8:49:35 AM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	9/1/2022 8:49:35 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	9/1/2022 3:56:45 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 interference S

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

Page 1 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2208167-002	Ma

Client Sample ID: WES22-10 1' Collection Date: 8/30/2022 11:35:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 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	14	mg/Kg	1	9/1/2022 6:25:11 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 6:25:11 PM
Surr: DNOP	96.5	21-129	%Rec	1	9/1/2022 6:25:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/1/2022 9:13:07 AM
Surr: BFB	95.7	37.7-212	%Rec	1	9/1/2022 9:13:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/1/2022 9:13:07 AM
Toluene	ND	0.041	mg/Kg	1	9/1/2022 9:13:07 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/1/2022 9:13:07 AM
Xylenes, Total	ND	0.083	mg/Kg	1	9/1/2022 9:13:07 AM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	9/1/2022 9:13:07 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	130	60	mg/Kg	20	9/1/2022 4:09:10 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 interference S

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

Page 2 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2208167-003 Lab ID:

Client Sample ID: WES22-11 1' Collection Date: 8/30/2022 11:40:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 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	14	mg/Kg	1	9/1/2022 6:39:11 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/1/2022 6:39:11 PM
Surr: DNOP	80.1	21-129	%Rec	1	9/1/2022 6:39:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/1/2022 9:36:36 AM
Surr: BFB	96.6	37.7-212	%Rec	1	9/1/2022 9:36:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/1/2022 9:36:36 AM
Toluene	ND	0.040	mg/Kg	1	9/1/2022 9:36:36 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/1/2022 9:36:36 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/1/2022 9:36:36 AM
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	9/1/2022 9:36:36 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	61	mg/Kg	20	9/1/2022 4:46:22 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 3 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2208167-004 Lab ID:

Client Sample ID: WES22-12 1' Collection Date: 8/30/2022 11:45:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 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	15	mg/Kg	1	9/1/2022 6:52:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 6:52:56 PM
Surr: DNOP	94.9	21-129	%Rec	1	9/1/2022 6:52:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/1/2022 10:00:05 AM
Surr: BFB	95.1	37.7-212	%Rec	1	9/1/2022 10:00:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/1/2022 10:00:05 AM
Toluene	ND	0.040	mg/Kg	1	9/1/2022 10:00:05 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/1/2022 10:00:05 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/1/2022 10:00:05 AM
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	9/1/2022 10:00:05 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/1/2022 4:58:46 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 4 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2208I67-005	Ma

Client Sample ID: BES22-05 2' Collection Date: 8/30/2022 11:55:00 AM Received Date: 9/1/2022 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	15	mg/Kg	1	9/1/2022 7:06:43 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 7:06:43 PM
Surr: DNOP	86.9	21-129	%Rec	1	9/1/2022 7:06:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 10:23:30 AM
Surr: BFB	96.2	37.7-212	%Rec	1	9/1/2022 10:23:30 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	9/1/2022 10:23:30 AM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 10:23:30 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 10:23:30 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2022 10:23:30 AM
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	9/1/2022 10:23:30 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 5:11:11 PM

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

Qualifiers:

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

Page 5 of 11
Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2208167-006	Matr

Client Sample ID: BES22-06 2' Collection Date: 8/30/2022 12:00:00 PM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 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	15	mg/Kg	1	9/1/2022 7:20:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 7:20:24 PM
Surr: DNOP	94.5	21-129	%Rec	1	9/1/2022 7:20:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	9/1/2022 10:47:01 AM
Surr: BFB	98.2	37.7-212	%Rec	1	9/1/2022 10:47:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	9/1/2022 10:47:01 AM
Toluene	ND	0.037	mg/Kg	1	9/1/2022 10:47:01 AM
Ethylbenzene	ND	0.037	mg/Kg	1	9/1/2022 10:47:01 AM
Xylenes, Total	ND	0.075	mg/Kg	1	9/1/2022 10:47:01 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	9/1/2022 10:47:01 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	9/1/2022 5:23:35 PM

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

Qualifiers:

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

Page 6 of 11

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208I67

Date Reported: 9/6/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2208I67-007	Ma

Client Sample ID: BES22-07 2' Collection Date: 8/30/2022 12:05:00 PM

Matrix: MEOH (SOIL)

Received Date: 9/1/2022 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	14	mg/Kg	1	9/1/2022 7:34:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 7:34:07 PM
Surr: DNOP	94.1	21-129	%Rec	1	9/1/2022 7:34:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	9/1/2022 11:10:32 AM
Surr: BFB	95.8	37.7-212	%Rec	1	9/1/2022 11:10:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/1/2022 11:10:32 AM
Toluene	ND	0.043	mg/Kg	1	9/1/2022 11:10:32 AM
Ethylbenzene	ND	0.043	mg/Kg	1	9/1/2022 11:10:32 AM
Xylenes, Total	ND	0.086	mg/Kg	1	9/1/2022 11:10:32 AM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/1/2022 11:10:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 5:36:00 PM

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

Qualifiers:

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

Page 7 of 11

	x Resources Services, Inc. 29 CTB1 Heater Treater			
Sample ID: MB-69904	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 69904	RunNo: 90757		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3244264	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-69904	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 69904	RunNo: 90757		
Prep Date: 8/31/2022	Analysis Date: 9/1/2022	SeqNo: 3244265	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15.00	0 101 90	110	

Qualifiers:

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

2208167

06-Sep-22

Client: Vertex I	Resources Se	ervices,	Inc.							
Project: Onyx 29	OCTB1 Heat	ter Trea	ater							
Sample ID: MB-69910	SampTy	ype: ME	BLK	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 699	910	R	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis Da	ate: 9/	1/2022	S	SeqNo: 3	243472	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.0	21	129			
Sample ID: LCS-69910	SampTy	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 699	910	R	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis Da	ate: 9/	1/2022	S	SeqNo: 3	244526	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.8	64.4	127			
Surr: DNOP	4.7		5.000		94.8	21	129			
Sample ID: 2208167-001AMS	SampTy	ype: MS	5	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: WES22-09 1'	Batch	ID: 699	910	R	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis Da	ate: 9/	1/2022	S	SeqNo: 3	244528	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	14	48.31	0	94.5	36.1	154			
Surr: DNOP	4.8		4.831		98.4	21	129			
Sample ID: 2208167-001AMS	D SampTy	ype: MS	D	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: WES22-09 1'	Batch	ID: 69	910	R	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis Da	ate: 9/	1/2022	S	SeqNo: 3	244529	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	48.45	0	90.0	36.1	154	4.64	33.9	
Surr: DNOP	4.6		4.845		95.9	21	129	0	0	

Qualifiers:

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

Page 9 of 11

2208167

06-Sep-22

	esources Se CTB1 Heat									
Sample ID: mb	SampTy	/pe: ME	BLK	Test	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: G9	0750	R	unNo: 9	0750				
Prep Date:	Analysis Da	ate: 9/	1/2022	S	eqNo: 3	243897	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 990	5.0	1000		99.0	37.7	212			
Sample ID: 2.5ug gro Ics	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: G9	0750	R	lunNo: 9	0750				
Prep Date:	Analysis Da	ate: 9/	1/2022	S	eqNo: 3	243898	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.5	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			
Sample ID: 2208i67-001ams	SampTy	/pe: M \$	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: WES22-09 1'	Batch	ID: G9	0750	R	lunNo: 9	0750				
Prep Date:	Analysis Da	ate: 9/	1/2022		eqNo: 3	242000	Units: mg/K	a		
	•	••••	I/LOLL		equil. 3	243900	Units. IIIg/n	g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO)	Result 24						Ū	0	RPDLimit	Qual
,		PQL	SPK value	SPK Ref Val	· %REC	LowLimit	HighLimit	0	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 2000	PQL 4.9	SPK value 24.49 979.4	SPK Ref Val 0	%REC 97.3 202	LowLimit 70 37.7	HighLimit 130	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB	24 2000 SampTy	PQL 4.9	SPK value 24.49 979.4	SPK Ref Val 0 Test	%REC 97.3 202	LowLimit 70 37.7 PA Method	HighLimit 130 212	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2208i67-001amsd	24 2000 SampTy	PQL 4.9 ype: MS ID: G9	SPK value 24.49 979.4 SD 00750	SPK Ref Val 0 Test R	%REC 97.3 202	LowLimit 70 37.7 PA Method 0750	HighLimit 130 212	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2208i67-001amsd Client ID: WES22-09 1'	24 2000 SampTy Batch	PQL 4.9 ype: MS ID: G9	SPK value 24.49 979.4 6D 00750 1/2022	SPK Ref Val 0 Test R	%REC 97.3 202 tCode: El	LowLimit 70 37.7 PA Method 0750	HighLimit 130 212 8015D: Gaso	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2208i67-001amsd Client ID: WES22-09 1' Prep Date:	24 2000 SampTy Batch Analysis Da	PQL 4.9 ype: MS ID: G9 ate: 9 /	SPK value 24.49 979.4 6D 00750 1/2022	SPK Ref Val 0 Test R S	%REC 97.3 202 tCode: El tunNo: 9 SeqNo: 3	LowLimit 70 37.7 PA Method 0750 243909	HighLimit 130 212 8015D: Gaso Units: mg/K	%RPD	e	

Qualifiers:

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

Page 10 of 11

2208167

06-Sep-22

	esources S CTB1 Hea										
Sample ID: mb				Too	tCodo: El	PA Mothod	8021B: Vola	tilos			
		Гуре: МЕ					8021B: Volatiles				
Client ID: PBS		h ID: B9			RunNo: 9			-			
Prep Date:	Analysis [Jate: 9/	1/2022	2	SeqNo: 3	243938	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 ND	0.050 0.10									
Xylenes, Total Surr: 4-Bromofluorobenzene	0.93	0.10	1.000		93.5	70	130				
	0.95		1.000		95.5	70	150				
Sample ID: 100ng btex lcs	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Batc	h ID: B9	0750	F	RunNo: 9	0750					
Prep Date:	Analysis [Date: 9/	1/2022	S	SeqNo: 3	243939	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	1.000	0	86.6	80	120				
Toluene	0.90	0.050	1.000	0	90.4	80	120				
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120				
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120				
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130				
Sample ID: 2208i67-002ams	Samp	Гуре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: WES22-10 1'	Batc	h ID: B9	0750	F	RunNo: 9	0750					
Prep Date:	Analysis [Date: 9/	1/2022	S	SeqNo: 3	243949	Units: mg/	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.72	0.021	0.8299	0	86.5	68.8	120				
Toluene	0.74	0.041	0.8299	0	89.6	73.6	124				
Ethylbenzene	0.74	0.041	0.8299	0	88.8	72.7	129				
Xylenes, Total	2.2	0.083	2.490	0	87.9	75.7	126				
Surr: 4-Bromofluorobenzene	0.78		0.8299		94.3	70	130				
Sample ID: 2208i67-002amsd	Samp	Гуре: М \$	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: WES22-10 1'	Batc	h ID: B9	0750	F	RunNo: 9	0750					
Prep Date:	Analysis [Date: 9/	1/2022	S	SeqNo: 3	243950	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.72	0.021	0.8299	0	86.9	68.8	120	0.438	20		
Toluene	0.75	0.041	0.8299	0	89.8	73.6	124	0.212	20		
Ethylbenzene	0.75	0.041	0.8299	0	90.4	72.7	129	1.69	20		
Xylenes, Total	2.2	0.083	2.490	0	90.0	75.7	126	2.39	20		
Surr: 4-Bromofluorobenzene	0.76		0.8299		91.3	70	130	0	0		

Qualifiers:

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

Page 11 of 11

2208167

06-Sep-22

ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Al TEL: 505-345-397 Website: www.l	49 buquer 75 FAX	01 Hawk que, NM : 505-343	ins NE 87109 5-4107	Sar	Page 403
Client Name: Vertex Resources Services, Inc.	Work Order Numbe	er: 220	8167			RcptNo: 1
Received By: Cheyenne Cason	9/1/2022 7:30:00 AM			Chem Chem	L	
Completed By: Cheyenne Cason Reviewed By: 9-1-72	9/1/2022 7:50:30 AM			Chan	L	
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No		Not Present
2. How was the sample delivered?		Cou				
Log In						
3. Was an attempt made to cool the samples?		Yes		No		
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No		
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		NA 🗌
9. Received at least 1 vial with headspace <1/4'	for AQ VOA?	Yes		No		NA 🔽
10. Were any sample containers received broker		Yes		No	~	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of (Custody?	Yes	~	No		Adjusted?
13. Is it clear what analyses were requested?		Yes	~	No		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No		Checked by: JA 9/1/27
Special Handling (if applicable)						
15. Was client notified of all discrepancies with the	nis order?	Yes		No		NA 🗹
Person Notified:	Date:				_	
By Whom:	Via:	eM	ail 🗖	Phone	Fav	In Person
Regarding:	viu. [, i di	
Client Instructions:						
16. Additional remarks:						
and the second	al Intact Seal No S	Seal D	ate	Signed	Ву	

Page 1 of 1

Number Life Across Casher Anal YSIS Laboration Im Address: Driver Structure Casher Treater Anal Visit Structure Im Address: Driver Scatter Treater Analos Im Address: Driver Scatter Treater Analos Im Francis Driver Scatter Treater Analos Im Haus Driver Analos Scatter Treater Im Haus Driver Analos Scatter Treater Im Haus Driver Analos Scatter Treater Imal Advector Driver Analos Scatter Treater Imal Advector Driver Analos Scatter Treater Imal Advector Driver Properiod Analos Imal Advector Driver Properiod Analos Imal Advector Driver Properiod Analo	Client:	Chain-of-Custody Record	Turn-Around Time: 24.	24-HOUL		HALL EN	ENVIRONMENT	N
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Ing Address Constraint Address Constraint Address			0	1		www.hallenvirg	onmental com	
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пен: 225-0720-020 пен: 2225-0720-020 Clifor Fack: Compliance Project Manager: Clifor Fack: Clifor Fac:					Tel 505	1	N 505-345 410	
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September 08, 2022

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

OrderNo.: 2209087

RE: Onyx 29 CTB1 Heater Treater

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-001 Lab ID:

Client Sample ID: WES22-13 1' Collection Date: 8/31/2022 9:15:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:41:47 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 11:41:47 AM
Surr: DNOP	81.5	21-129	%Rec	1	9/2/2022 11:41:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 10:28:00 AM
Surr: BFB	91.6	37.7-212	%Rec	1	9/2/2022 10:28:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.022	mg/Kg	1	9/2/2022 10:28:00 AM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 10:28:00 AM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 10:28:00 AM
Xylenes, Total	ND	0.089	mg/Kg	1	9/2/2022 10:28:00 AM
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	9/2/2022 10:28:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/2/2022 11:39:37 AM

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

Qualifiers:

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

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

Page 1 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-002 Lab ID:

Client Sample ID: WES22-14 1' Collection Date: 8/31/2022 9:20:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 10:50:36 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 10:50:36 AM
Surr: DNOP	88.7	21-129	%Rec	1	9/2/2022 10:50:36 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 10:48:00 AM
Surr: BFB	92.1	37.7-212	%Rec	1	9/2/2022 10:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.022	mg/Kg	1	9/2/2022 10:48:00 AM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 10:48:00 AM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 10:48:00 AM
Xylenes, Total	ND	0.088	mg/Kg	1	9/2/2022 10:48:00 AM
Surr: 4-Bromofluorobenzene	88.5	70-130	%Rec	1	9/2/2022 10:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	65	61	mg/Kg	20	9/2/2022 11:52:01 AM

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

Qualifiers:

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

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

Page 2 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-003 Lab ID:

Client Sample ID: WES22-15 1' Collection Date: 8/31/2022 9:25:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 11:14:22 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/2/2022 11:14:22 AM
Surr: DNOP	97.6	21-129	%Rec	1	9/2/2022 11:14:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/2/2022 11:08:00 AM
Surr: BFB	94.3	37.7-212	%Rec	1	9/2/2022 11:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.021	mg/Kg	1	9/2/2022 11:08:00 AM
Toluene	ND	0.041	mg/Kg	1	9/2/2022 11:08:00 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/2/2022 11:08:00 AM
Xylenes, Total	ND	0.083	mg/Kg	1	9/2/2022 11:08:00 AM
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	9/2/2022 11:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/2/2022 12:04:26 PM

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

Qualifiers:

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

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

Page 3 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2209087-004	N

Client Sample ID: WES22-16 1' Collection Date: 8/31/2022 9:30:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:38:16 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 11:38:16 AM
Surr: DNOP	92.5	21-129	%Rec	1	9/2/2022 11:38:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:27:00 AM
Surr: BFB	93.8	37.7-212	%Rec	1	9/2/2022 11:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:27:00 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:27:00 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:27:00 AM
Xylenes, Total	ND	0.081	mg/Kg	1	9/2/2022 11:27:00 AM
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	9/2/2022 11:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	9/2/2022 12:41:40 PM

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

Qualifiers:

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

Page 4 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2209087-005	Μ

Client Sample ID: WES22-17 1' Collection Date: 8/31/2022 9:35:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 12:02:05 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 12:02:05 PM
Surr: DNOP	94.0	21-129	%Rec	1	9/2/2022 12:02:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:47:00 AM
Surr: BFB	93.0	37.7-212	%Rec	1	9/2/2022 11:47:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:47:00 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:47:00 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:47:00 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 11:47:00 AM
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	9/2/2022 11:47:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/2/2022 12:54:05 PM

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

Qualifiers:

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

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

Page 5 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2209087-006	Mat

Client Sample ID: BES22-04 4' Collection Date: 8/31/2022 9:40:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 12:25:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 12:25:56 PM
Surr: DNOP	93.3	21-129	%Rec	1	9/2/2022 12:25:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/2/2022 9:02:21 AM
Surr: BFB	96.9	37.7-212	%Rec	1	9/2/2022 9:02:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:02:21 AM
Toluene	ND	0.041	mg/Kg	1	9/2/2022 9:02:21 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/2/2022 9:02:21 AM
Xylenes, Total	ND	0.082	mg/Kg	1	9/2/2022 9:02:21 AM
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/2/2022 9:02:21 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 11:16:16 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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-007 Lab ID:

Client Sample ID: BES22-08 2' Collection Date: 8/31/2022 9:45:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:52:20 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 11:52:20 AM
Surr: DNOP	79.4	21-129	%Rec	1	9/2/2022 11:52:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 9:25:55 AM
Surr: BFB	97.5	37.7-212	%Rec	1	9/2/2022 9:25:55 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:25:55 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 9:25:55 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 9:25:55 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/2/2022 9:25:55 AM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	9/2/2022 9:25:55 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 11:28:36 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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT:	Vertex Resources Services, Inc.	
Project:	Onyx 29 CTB1 Heater Treater	
Lab ID:	2209087-008	Mat

Client Sample ID: BES22-09 2' Collection Date: 8/31/2022 9:55:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:02:56 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 12:02:56 PM
Surr: DNOP	80.8	21-129	%Rec	1	9/2/2022 12:02:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 9:49:26 AM
Surr: BFB	97.9	37.7-212	%Rec	1	9/2/2022 9:49:26 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:49:26 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 9:49:26 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 9:49:26 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 9:49:26 AM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	9/2/2022 9:49:26 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	62	60	mg/Kg	20	9/2/2022 11:40:56 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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. Onyx 29 CTB1 Heater Treater **Project:** 2209087-009 Lab ID:

Client Sample ID: BES22-10 2' Collection Date: 8/31/2022 9:55:00 AM

Matrix: MEOH (SOIL) Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:13:32 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 12:13:32 PM
Surr: DNOP	78.7	21-129	%Rec	1	9/2/2022 12:13:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	9/2/2022 10:12:55 AM
Surr: BFB	98.0	37.7-212	%Rec	1	9/2/2022 10:12:55 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	9/2/2022 10:12:55 AM
Toluene	ND	0.035	mg/Kg	1	9/2/2022 10:12:55 AM
Ethylbenzene	ND	0.035	mg/Kg	1	9/2/2022 10:12:55 AM
Xylenes, Total	ND	0.069	mg/Kg	1	9/2/2022 10:12:55 AM
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	9/2/2022 10:12:55 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 11:53:18 AM

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

Qualifiers:

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

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

Page 9 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-010 Lab ID:

Client Sample ID: BES22-11 2' Collection Date: 8/31/2022 10:00:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:24:09 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:24:09 PM
Surr: DNOP	78.5	21-129	%Rec	1	9/2/2022 12:24:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 10:36:27 AM
Surr: BFB	98.4	37.7-212	%Rec	1	9/2/2022 10:36:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 10:36:27 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 10:36:27 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 10:36:27 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 10:36:27 AM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	9/2/2022 10:36:27 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:05:39 PM

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

Page 10 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-011 Lab ID:

Client Sample ID: WES22-09 2' Collection Date: 8/31/2022 10:05:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:34:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:34:46 PM
Surr: DNOP	73.8	21-129	%Rec	1	9/2/2022 12:34:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	9/2/2022 10:59:56 AM
Surr: BFB	95.9	37.7-212	%Rec	1	9/2/2022 10:59:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/2/2022 10:59:56 AM
Toluene	ND	0.043	mg/Kg	1	9/2/2022 10:59:56 AM
Ethylbenzene	ND	0.043	mg/Kg	1	9/2/2022 10:59:56 AM
Xylenes, Total	ND	0.086	mg/Kg	1	9/2/2022 10:59:56 AM
Surr: 4-Bromofluorobenzene	90.6	70-130	%Rec	1	9/2/2022 10:59:56 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:18:00 PM

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

Qualifiers:

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

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

Page 11 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-012 Lab ID:

Client Sample ID: WES22-18 2' Collection Date: 8/31/2022 10:30:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:45:25 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:45:25 PM
Surr: DNOP	81.1	21-129	%Rec	1	9/2/2022 12:45:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:23:32 AM
Surr: BFB	100	37.7-212	%Rec	1	9/2/2022 11:23:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:23:32 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:23:32 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:23:32 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 11:23:32 AM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	9/2/2022 11:23:32 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	9/2/2022 12:30:21 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 interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 12 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-013 Lab ID:

Client Sample ID: WES22-19 3' Collection Date: 8/31/2022 10:35:00 AM

Matrix: MEOH (SOIL) Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:56:03 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 12:56:03 PM
Surr: DNOP	75.8	21-129	%Rec	1	9/2/2022 12:56:03 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:47:12 AM
Surr: BFB	97.9	37.7-212	%Rec	1	9/2/2022 11:47:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:47:12 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:47:12 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:47:12 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/2/2022 11:47:12 AM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	9/2/2022 11:47:12 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:42:42 PM

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

Qualifiers:

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

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

Page 13 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-014 Lab ID:

Client Sample ID: WES22-20 3' Collection Date: 8/31/2022 10:40:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 1:06:42 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 1:06:42 PM
Surr: DNOP	82.1	21-129	%Rec	1	9/2/2022 1:06:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 12:10:49 PM
Surr: BFB	96.8	37.7-212	%Rec	1	9/2/2022 12:10:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	9/2/2022 12:10:49 PM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 12:10:49 PM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 12:10:49 PM
Xylenes, Total	ND	0.089	mg/Kg	1	9/2/2022 12:10:49 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/2/2022 12:10:49 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	9/2/2022 1:19:44 PM

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

Qualifiers:

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

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

Page 14 of 21

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209087

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater 2209087-015 Lab ID:

Client Sample ID: WES22-21 1.5' Collection Date: 8/31/2022 10:50:00 AM

Matrix: MEOH (SOIL)

Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 1:17:22 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/2/2022 1:17:22 PM
Surr: DNOP	83.3	21-129	%Rec	1	9/2/2022 1:17:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	9/2/2022 12:34:29 PM
Surr: BFB	101	37.7-212	%Rec	1	9/2/2022 12:34:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/2/2022 12:34:29 PM
Toluene	ND	0.042	mg/Kg	1	9/2/2022 12:34:29 PM
Ethylbenzene	ND	0.042	mg/Kg	1	9/2/2022 12:34:29 PM
Xylenes, Total	ND	0.084	mg/Kg	1	9/2/2022 12:34:29 PM
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	9/2/2022 12:34:29 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 1:32:05 PM

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

Qualifiers:

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

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

Page 15 of 21

Client:	Vertex Resources S	Services, Inc.						
Project:	Onyx 29 CTB1 He	ater Treater						
Sample ID: MB-	69943 Samo	Type: mblk	Teo	stCode: EPA Metho	nd 300 0: Anion	s		
	·					5		
Client ID: PBS		h ID: 69943		RunNo: 90777				
Prep Date: 9/2	/2022 Analysis [Date: 9/2/2022		SeqNo: 3245095	Units: mg/K	g		
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5						
Sample ID: LCS	-69943 Samp	Type: Ics	Tes	stCode: EPA Metho	od 300.0: Anion	s		
Client ID: LCS	S Batc	h ID: 69943		RunNo: 90777				
Prep Date: 9/2	/2022 Analysis [Date: 9/2/2022		SeqNo: 3245096	Units: mg/K	g		
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5 15	5.00 0	94.4 9	0 110			
Sample ID: MB-	69942 Samp	Type: mblk	Tes	stCode: EPA Metho	od 300.0: Anion	s		
Client ID: PBS	Batc	h ID: 69942		RunNo: 90776				
Prep Date: 9/2	/2022 Analysis [Date: 9/2/2022		SeqNo: 3247708	Units: mg/K	g		
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5						
Sample ID: LCS	-69942 Samp	Type: Ics	Tes	stCode: EPA Metho	od 300.0: Anion	s		
Client ID: LCS	S Batc	h ID: 69942		RunNo: 90776				
Prep Date: 9/2	/2022 Analysis [Date: 9/2/2022		SeqNo: 3247709	Units: mg/K	g		
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5 15	5.00 0	98.8 9	0 110			

Qualifiers:

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

Page 16 of 21

2209087

08-Sep-22

	esources S CTB1 Hea									
Sample ID: MB-69936 Client ID: PBS	•	Гуре: МЕ h ID: 69			tCode: El		8015M/D: Die	esel Range	e Organics	
Prep Date: 9/2/2022	Analysis [Date: 9/	2/2022	S	SeqNo: 3	244905	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.1	21	129			
Sample ID: LCS-69936	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 69	936	F	RunNo: 9	0778				
Prep Date: 9/2/2022	Analysis [Date: 9/	2/2022	S	SeqNo: 3	244906	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.5	64.4	127			
Surr: DNOP	4.4		5.000		87.5	21	129			

Qualifiers:

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

Page 17 of 21

2209087

08-Sep-22

	esources S CTB1 Hea	,								
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: G9	0762	RunNo: 90762						
Prep Date:	Analysis D	ate: 9/	2/2022	S	SeqNo: 32	245256	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 980	5.0	1000		98.1	37.7	212			
Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: G9	0762	F	RunNo: 9(0762				
Prep Date:	Analysis D	ate: 9/ 2	2/2022	S	SeqNo: 32	245257	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	25 2000	5.0	25.00 1000	0	101 203	72.3 37.7	137 212			
Sample ID: 2209087-006AMS	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BES22-04 4'	Batch	n ID: G9	0762	F	RunNo: 9(0762				
Prep Date:	Analysis D	ate: 9/	2/2022	S	SeqNo: 32	245258	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.1	20.41	0	96.7	70	130			
Surr: BFB	1600		816.3		198	37.7	212			
Sample ID: 2209087-006AMS	D SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BES22-04 4'	Batch	n ID: G9	0762	F	RunNo: 9(0762				
Prep Date:	Analysis D	ate: 9/ 2	2/2022	S	SeqNo: 32	245259	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.41	0	93.6	70	130	3.32	20	
Surr: BFB	1600		816.3		196	37.7	212	0	0	
Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: A9	0773	F	RunNo: 9(0773				
Prep Date:	Analysis D	ate: 9/ 2	2/2022	S	SeqNo: 32	245742	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	25 2100	5.0	25.00 1000	0	99.9 210	72.3 37.7	137 212			
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: A9	0773	F	RunNo: 9(0773				
Prep Date:	Analysis D	ate: 9/ 2	2/2022	S	SeqNo: 32	245743	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 21

2209087

08-Sep-22

2209087

08-Sep-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Vertex Resources Services, Inc. Project: Onyx 29 CTB1 Heater Treater										
Sample ID: mb	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e			
Client ID: PBS Batch ID: A90773			0773	RunNo: 90773						
Prep Date:	Analys	is Date: 9/	/2/2022	5	SeqNo: 32	245743	Units: mg/k	ζg		
Analyte	Resu	lt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) N	D 5.0								
Surr: BFB	100	0	1000		99.9	37.7	212			

Qualifiers:

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

Page 19 of 21

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	Resources S 9 CTB1 Hea									
Sample ID: mb		Type: ME		Too	tCodo: El	A Mothod	8021B: Volat	tiloo		
Client ID: PBS		h ID: B9						liles		
		-			RunNo: 90		11-11- 0			
Prep Date:	Analysis [Date: 9/	2/2022	5	SeqNo: 32	245287	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10	4 000		00.4	70	400			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			
Sample ID: 100ng btex Ics	Samp ⁻	Туре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: B9	0762	F	RunNo: 90	0762				
Prep Date:	Analysis [Date: 9/	2/2022	S	SeqNo: 32	245288	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	70	130			
Sample ID: 2209087-007AM	S Samp ⁻	Туре: МS	6	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: BES22-08 2'	Batc	h ID: B9	0762	F	RunNo: 9	0762				
Prep Date:	Analysis [Date: 9/	2/2022	S	SeqNo: 32	245289	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.020	0.7905	0	88.3	68.8	120			
Toluene	0.72	0.040	0.7905	0	90.8	73.6	124			
Ethylbenzene	0.72	0.040	0.7905	0	91.3	72.7	129			
Xylenes, Total	2.1	0.079	2.372	0	90.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.74		0.7905		93.9	70	130			
Sample ID: 2209087-007AM	SD Samp	Туре: МS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: BES22-08 2'	Batc	h ID: B9	0762	F	RunNo: 90	0762				
Prep Date:	Analysis [Date: 9/	2/2022	S	SeqNo: 32	245290	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.020	0.7905	0	86.5	68.8	120	2.06	20	
Toluene	0.71	0.040	0.7905	0	89.6	73.6	124	1.37	20	
Ethylbenzene	0.71	0.040	0.7905	0	89.5	72.7	129	1.98	20	
Xylenes, Total	2.1	0.079	2.372	0	89.3	75.7	126	1.28	20	
Surr: 4-Bromofluorobenzene	0.75		0.7905		94.9	70	130	0	0	

Qualifiers:

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

Page 20 of 21

2209087

08-Sep-22

Client:	Vertex Resource	es Servic	ces, Inc.							
Project:	Onyx 29 CTB1	Heater 7	Treater							
Sample ID: mb	S	ampType:	MBLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch ID:	B90773	I	RunNo: 9	0773				
Prep Date:	Analy	sis Date:	9/2/2022	:	SeqNo: 3	245771	Units: mg/K	íg		
Analyte	Res	ult PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1	ND 0.0	25							
Toluene	1	ND 0.0	50							
Ethylbenzene	1	ND 0.0	50							
Xylenes, Total	1	ND 0.	10							
Surr: 4-Bromofluoroben	zene 0.	97	1.000		96.5	70	130			
Sample ID: 100ng b	tex lcs2 S	ampType:	LCS	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS		Batch ID:	B90773	I	RunNo: 9	0773				
Prep Date:	Analy	sis Date:	9/2/2022	:	SeqNo: 3	245772	Units: mg/K	íg		
Analyte	Res	ult PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.	81 0.0	25 1.000	0	80.7	80	120			
Toluene	0.	84 0.0	50 1.000	0	83.7	80	120			
Ethylbenzene	0	86 0.0	50 1.000	0	85.5	80	120			
Luiyidenzene	0.	00 0.0	1.000	-						
Xylenes, Total	-		10 3.000	-	85.4	80	120			

Qualifiers:

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

ND Not Detected at the Reporting Limit

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

Page 21 of 21

2209087

08-Sep-22

		RONMENT	35:26 AM AL		ll Environme L: 505-345-: Website: ww	490 Albuquero 3975 FAX:	01 Hawk que, NM 505-34:	ins NE 87109 5-4107	Page Sample Log-In Check List					
C	lient Name:	Vertex Res Services, I		Work	Work Order Number: 2209087					RcptNo: 1				
Re	eceived By:	Cheyenne	e Cason	9/2/202	2 7:30:00 A	M		Chene Chene	L					
	ompleted By:	Cheyenne		9/2/202	2 7:39:32 A	M		Chene	1					
Re	eviewed By:	su a	1/2/22											
Ch	nain of Cus	tody												
1.	Is Chain of C	ustody comp	olete?			Yes	\checkmark	No		Not Present				
2.	How was the	sample deliv	vered?			Cou	rier							
L	og In													
3.	Was an attem	npt made to o	cool the samp	bles?		Yes		No		NA 🗌				
4.	Were all samp	oles received	l at a tempera	ature of >0° C	to 6.0°C	Yes	~	No						
5.	Sample(s) in	proper conta	iner(s)?			Yes		No						
6.	Sufficient sam	ple volume f	or indicated t	est(s)?		Yes	~	No						
7.	Are samples (except VOA	and ONG) pr	operly preserve	ed?	Yes	~	No						
8.	Was preserva	tive added to	bottles?			Yes		No	✓	NA 🗌				
9.	Received at le	ast 1 vial wit	h headspace	<1/4" for AQ \	OA?	Yes		No		NA 🗹				
10.	Were any san	nple containe	ers received b	proken?		Yes		No	~	# of preserved bottles checked				
	Does paperwo (Note discrepa			r)		Yes	~	No		for pH: (<2 or >12 un	less noted)			
2.	Are matrices o	orrectly iden	tified on Chai	in of Custody?		Yes	~	No		Adjusted?				
3.	Is it clear what	analyses we	ere requested	17		Yes	~	No						
	Were all holdir (If no, notify cu					Yes	•	No		Checked by: Jn 9/	2/22			
spe	cial Handl	ing (if app	olicable)						-					
15.	Was client no	tified of all di	iscrepancies	with this order?	2	Yes		No		NA 🗹				
	Person	Notified:	-		Date:	-		_	-					
	By Who	m:			Via:	eMa	ail 🔲	Phone	Fax	In Person				
	Regardi	ng:												
	Client Ir	structions:												
16.	Additional rer	marks:												
17.	Cooler Infor	mation												
	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed E	Ву					
	1	1.3	Good	Not Present										
	2	0.9	Good	Not Present										

.

Page 1 of 1

Validation)	Project #: $ZZE-0.720-002$ Project Manager: $ZZE-0.720-002$ Sampler: $ZZE-0.720-002$ Sampler: $ZZE-0.720-002$ Sampler: $ZZE-0.720-002$ On loc: $ZZ=0.002$ # of Cooler: Z Container Preservative Type $ZZ=0.90.1 \le 0.1 \le 0.4$ Cooler: Z # of Coolers: Z Yype $ZZ=0.90.687$ $Z=0.070.87$ <t< th=""><th>Absolution Absolution Absolution Absolution Absolution</th></t<>	Absolution Absolution Absolution
85522-04 4' 85522-05 2' 2527-06 7'	201 207	
85522-09 2 85522-10 2' 45522-11 2' 45522-11 2' 45522-09 2'	008 010 0110 0110 0110	
1 1 1	Received by: Via: Date OUUUUAUAAA Received by: Via: 0122 Date	Date Time Remarks: CC: CHANCE Dixon Date Time Lot #: 20956105 Z/10 0730

Client: Deven Vertex Client: Deven Vertex Maling Address: Phone #: Phone #: Phone #: Phone #: Bhone #: Client: Deven Vertex Dava Deven Phone #: Date Date Do: 40 Do: 50 Date Date Date: Time: Relinquished by:
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Page 6

Oil Conservation Division

Incident ID	nAPP2213024415
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 follow	wing items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15	15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
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:Dale Woodall Title: Environment Professional Signature:Date Date:10/19/2022		
email:dale.wodall@dvn.com	Telephone:575-7481838	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

Received by OCD: 11/1/2022 7:35:26 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 431 of 43.	3
Incident ID	nAPP2116441032	
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.

	1
What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{75}{\text{bgs}}$ (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	☐ Yes ⊠ No
watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used	
by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh	🗌 Yes 🛛 No
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?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🛛 Yes 🗌 No
	🗌 Yes 🔀 No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes 🗌 No

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

acterization Report Checklist: Each of the following items must be included in the report.
caled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ield data at table of soil contaminant concentration data bepth to water determination etermination of water sources and significant watercourses within ½-mile of the lateral extents of the release oring or excavation logs hotographs including date and GIS information opographic/Aerial maps aboratory 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.

Oil Conservation Division

Incident ID	nAPP2116441032
District RP	
Facility ID	
Application ID	

Page 432 of 433

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.

Closure Report Attachment Checklist:	Each of the following items must be included in the closure report.
---	---

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

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: _Dale Woodall	Title: _Environment Professional
Signature: Dale Woodall	Date:10/19/2022
email:dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	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:

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	134034
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

rhamlet We have received your closure report and final C-141 for Incident #NAPP2213024415 ONYX PWU 29 CTB 1, thank you. This closure is approved. 11/22/2022

CONDITIONS

Action 134034

Condition Date