

Incident ID	nAPP2300530365
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.

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: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle

Date: 3/24/2023

email: chase.settle@eogresources.com

Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon

Date: 03/30/2023

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: Robert Hamlet

Date: 8/15/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



March 29, 2023

Vertex Project #: 22E-00716-03

Spill Closure Report: Glass Kincaid OS #001
Unit D, Section 7, Township 19 South, Range 25 East
API: 30-015-23512
County: Eddy
Incident ID: nAPP2300530365

Prepared For: EOG Resources, Inc.
104 S. 4th Street
Artesia, New Mexico 88210

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

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a release that occurred in 1996, at Glass Kincaid OS #001, API 30-015-23512 (hereafter referred to as "Glass Kincaid"). EOG submitted a C-141 Release Notification (Attachment 1) to New Mexico Oil Conservation Division (NMOCD) District 2 on January 4, 2023. Incident ID number nAPP2300530365 was assigned to this incident.

This letter provides a description of the release assessment and remediation activities and demonstrates that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of this impact, with the understanding that remediation of the site was conducted in a manner to achieve the requirements of 19.15.29.13.

Incident Description

In 1996, a release occurred at Glass Kincaid; the volume of the release is unknown. This release was remediated in a correct and acceptable manner at that time and the closure was approved by NMOCD. Per the request of the private surface owner due to possible surface impacts preventing full vegetative growth of the reclaimed site, an assessment was initiated with a recommendation from Vertex for the submission of a C-141 based on the observed assessment results. On January 4, 2023, a C-141 was submitted to address the remaining impacts within the uppermost four feet to bring the site into compliance with NMAC 19.5.29.13.

Site Characterization

The release at Glass Kincaid occurred on private land at 32.68207° N, 104.53191° W, approximately 12.35 miles southwest of Artesia, New Mexico. The legal description for the site is Unit D, Section 7, Township 19 South, Range 25 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.

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

Glass Kincaid was typical of historical oil and gas production sites on the northwest portion of the Permian Basin and was used for oil and gas production and storage. The following sections specifically describe the release area along the right-of-way south of the location (Attachment 2 – Figure 1).

The surrounding landscape occurs on knolls, ridges, hillslopes, alluvial fans and escarpments with elevations ranging between 2,842 and 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information obtained from the United States Department of Agriculture, the dominant vegetation was determined to be primarily black grama with sideoats grama as the subdominant grass species, creosotebush, mesquite, and catclaw mimosa. Grasses with mixed shrub communities dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation was observed growing on the impacted area, right-of-way, and access road.

The Geological Map of New Mexico indicates the surface geology at Glass Kincaid is comprised primarily of Qp – Piedmont alluvial deposits from Holocene to upper Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2023). The United States Department of Agriculture *Web Soil Survey* characterizes the soil at the site as Upton Gravelly Loam Soils. The soil is well drained with a high runoff (United States Department of Agriculture, Natural Resources Conservation Service, 2023). The karst geology potential for Glass Kincaid is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Glass Kincaid. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 9.66 miles east of the site (United States Fish and Wildlife Service, 2023).

The nearest depth to groundwater information to Glass Kincaid is a monitoring well located approximately 0.16 miles northeast of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from the New Mexico Office of the State Engineer shows the well was dry at 105 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2023). Information pertaining to the depth to groundwater determination is included in Attachment 4.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 4) 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 release at Glass Kincaid is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The nearest groundwater data are less than 25 years old and located less than 0.5 miles from the release site; therefore, the depth to groundwater can accurately be determined. The closure criteria for the site is determined to be associated with the following constituent concentration limits (Table 1).

Table 1. Closure Criteria for Soils to Remediation & Reclamation Standards		
	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW >100 feet (19.15.29.12)	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

DTGW – depth of groundwater

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

Remedial Actions

On June 4, 2022, EOG contracted Vertex to complete a site assessment at Glass Kincaid which involved field screening procedures, oversight of the remediation fieldwork, and final confirmatory sampling. The initial site assessment and characterization activities at Glass Kincaid were begun by Vertex on June 24, 2022. The daily field report associated with the initial characterization is included in Attachment 5. The extent of the release was determined to be approximately 9,073 square feet. Initial characterization sample locations are presented on Figure 1 (Attachment 2) and laboratory results are presented in Table 2 (Attachment 3).

Excavation activities occurred between January 5 and March 2, 2023; EOG provided ten 48-hour notifications of confirmation sampling to NMOCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The release was remediated horizontally to NMOCD's strictest criteria, while the base of the four-foot excavation was remediated to NMOCD's DTGW >100 criteria (Table 1).

Closure Request

Vertex recommends no additional remediation action to address the release at Glass Kincaid. Laboratory analyses of confirmation samples collected at Glass Kincaid show final confirmatory values below NMOCD remediation closure criteria for areas where depth to groundwater is greater than 100 feet, with the top four feet meeting reclamation requirements of NMAC 19.15.29.13. Laboratory analysis and field screening results are included in Table 3 (Attachment 3). There are no anticipated risks to human, ecological, or hydrological receptors at this release site.

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

Vertex and EOG request that this incident (nAPP2300530365) be closed as all requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the attachments are correct and that they have complied with the all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure of this release.

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

Chance Dixon, B.Sc.

Date

SR. ENVIRONMENTAL TECHNOLOGIST, REPORT REVIEW

Attachments

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

References

- Google Inc. (2022). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>
- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2023). *Well Log/Meter Information Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html>
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- New Mexico Water Rights Reporting System. (2023a). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>
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- United States Department of Agriculture, Natural Resources Conservation Service. (2023). Web Soil Survey, New Mexico. Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf
- United States Department of Homeland Security, FEMA Flood Map Service Center. (2010). *Flood Map Number 35015C1875D*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>
- United States Department of the Interior, Bureau of Land Management. (2018) *New Mexico Cave/Karsts*. Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from <https://www.fws.gov/wetlands/data/mapper.html>

Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. (EOG). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG. 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.

ATTACHMENT 1

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	nAPP2300530365
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # nAPP2300530365
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.68163 Longitude -104.53156
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Glass Kincaid OS #001	Site Type P&A Well
Date Release Discovered 01/04/2023	API# (if applicable) 30-015-23512

Unit Letter	Section	Township	Range	County
D	7	19S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Howell Revocable Trust)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Historical Chloride Impacts	Unknown volume or product.	Unknown

Cause of Release

A previous release occurred at the site in 1996, which was remediated in the correct and accepted manner for the time. In 2006, the closure was approved for a LOV submitted by NMOCD for the site. As impacts approved for closure during 2006 remain, this C-141 is hereby submitted to address the remanent impacts within the upper most four feet to bring the site into compliance of NMAC 19.15.29.13. Assessment of the site was initiated at the bequest of the private surface owner, with the retained environmental consultant providing a recommendation (01/04/2023) for the possible submittal of a C-141 as further assessment continues.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u>Chase Settle</u>	Date: <u>01/04/2023</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 3/24/2023
email: chase.settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 03/30/2023

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Closure

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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

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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 3/24/2023
email: chase.settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 03/30/2023

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: _____

ATTACHMENT 2



- ◆ Borehole (Prefixed by "BH22-")
- Buried Pipeline
- Area of Sparse Vegetation (-9,073 sq.ft.)
- ✕ Barbed Wire Fence
- - - Aboveground Pipeline



0 7.5 15 30 ft.
Map Center:
Lat: 32.681692,
Long: -104.531494
NAD 1983 UTM Zone 12N
Date: Aug 09/22



Characterization Sample Locations

FIGURE:
1




Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from Esri, 2019. Data in Arc Collector, 2022 US Collector App, Vertex Professional Services., 2022.

VERSATILITY. EXPERTISE.



● Base Sample (Prefixed by "BS23-") ▲ Wall Sample (Prefixed by "WS23-")  Excavation to 4' (~16,993 sq. ft.)



0 10 20 40 ft
Map Center:
Lat/Long: 32.681683, -104.531472

NAD 1983 UTM Zone 13N
Date: Mar 09/23



Confirmatory schematic Glass Kincaid OS 1

FIGURE:

2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background imagery from Google Earth, 2019. Features from GPS, Vertex Professional Services Ltd., 2022 and 2023.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BES23-53	4'	2/27/2023	1	69	1,430	ND	ND	ND	ND	ND	ND	ND	970
BES23-54	4'	2/27/2023	1	63	1,655	ND	ND	ND	ND	ND	ND	ND	1200
BES23-55	4'	2/27/2023	1	157	2,148	ND	ND	ND	ND	ND	ND	ND	1400
BES23-56	4'	2/27/2023	1	85	1,715	ND	ND	ND	ND	ND	ND	ND	1400
BES23-57	4'	2/27/2023	0	57	1,638	ND	ND	ND	ND	ND	ND	ND	840
BES23-58	4'	2/28/2023	0	55	838	ND	ND	ND	ND	ND	ND	ND	590
BES23-59	4'	2/28/2023	0	69	1,550	ND	ND	ND	ND	ND	ND	ND	1200
BES23-60	4'	2/28/2023	1	94	1,825	ND	ND	ND	ND	ND	ND	ND	1500
BES23-61	4'	2/28/2023	1	58	1,248	ND	ND	ND	ND	ND	ND	ND	890
BES23-62	4'	2/28/2023	0	52	1,393	ND	ND	ND	ND	ND	ND	ND	1200
BES23-63	4'	2/28/2023	1	62	1,753	ND	ND	ND	ND	ND	ND	ND	1400
BES23-64	4'	2/28/2023	0	64	1,578	ND	ND	ND	ND	ND	ND	ND	970
BES23-65	4'	2/28/2023	0	72	1,193	ND	ND	ND	ND	ND	ND	ND	940
BES23-66	4'	2/28/2023	0	60	983	ND	ND	ND	ND	ND	ND	ND	640
BES23-67	4'	2/28/2023	0	53	1,160	ND	ND	ND	ND	ND	ND	ND	730
BES23-68	4'	2/28/2023	1	2	1,833	ND	ND	ND	ND	ND	ND	ND	1200
BES23-69	4'	2/28/2023	0	72	2,198	ND	ND	ND	ND	ND	ND	ND	1700
BES23-70	4'	3/01/2023	1	50	643	ND	ND	ND	ND	ND	ND	ND	370
BES23-71	4'	3/01/2023	1	110	793	ND	ND	ND	ND	ND	ND	ND	600
BES23-72	4'	3/01/2023	1	188	2,723	ND	ND	ND	16	ND	16	16	2400
BES23-73	4'	3/01/2023	1	175	3,635	ND	ND	ND	11	ND	11	11	3600
BES23-74	4'	3/01/2023	1	225	3,543	ND	ND	ND	13	ND	13	13	3100
BES23-75	4'	3/01/2023	1	226	1,370	ND	ND	ND	20	ND	20	20	4100
BES23-76	4'	3/01/2023	1	204	3,250	ND	ND	ND	12	ND	12	12	2600
BES23-77	4'	3/01/2023	-	128	2,198	ND	ND	ND	14	ND	14	14	2000
BES23-78	4'	3/01/2023	-	97	1,460	ND	ND	ND	ND	ND	ND	ND	1200
BES23-79	4'	3/01/2023	-	75	763	ND	ND	ND	ND	ND	ND	ND	520
BES23-80	4'	3/01/2023	-	59	763	ND	ND	ND	ND	ND	ND	ND	460
BES23-81	4'	3/02/2023	-	63	910	ND	ND	ND	ND	ND	ND	ND	770
BES23-82	4'	3/02/2023	-	69	1,275	ND	ND	ND	ND	ND	ND	ND	1100
BES23-83	4'	3/02/2023	-	115	680	ND	ND	ND	ND	ND	ND	ND	550
BES23-84	4'	3/02/2023	-	86	770	ND	ND	ND	ND	ND	ND	ND	700
BES23-85	4'	3/02/2023	-	38	530	ND	ND	ND	ND	ND	ND	ND	510
BES23-86	4'	3/02/2023	-	97	1,020	ND	ND	ND	ND	ND	ND	ND	870
BES23-87	4'	3/02/2023	-	81	1,828	ND	ND	ND	ND	ND	ND	ND	1900
BES23-88	4'	3/02/2023	-	62	1,188	ND	ND	ND	ND	ND	ND	ND	1100
BES23-89	4'	3/02/2023	-	202	1,063	ND	ND	ND	ND	ND	ND	ND	1400
BES23-90	4'	3/02/2023	-	492	1,580	ND	ND	ND	ND	ND	ND	ND	910
WES23-11	0-4'	1/13/2023	-	55	525	ND	ND	ND	ND	ND	ND	ND	350
WES23-92	0-4'	2/08/2023	-	72	580	ND	ND	ND	ND	ND	ND	ND	300
WES23-93	0-4'	2/08/2023	-	54	568	ND	ND	ND	ND	ND	ND	ND	220
WES23-105	0-4'	2/13/2023	-	18	495	ND	ND	ND	ND	ND	ND	ND	ND
WES23-106	0-4'	2/13/2023	-	25	665	ND	ND	ND	ND	ND	ND	ND	520
WES23-107	0-4'	2/13/2023	-	40	615	ND	ND	ND	ND	ND	ND	ND	360
WES23-108	0-4'	2/13/2023	-	40	355	ND	ND	ND	ND	ND	ND	ND	350
WES23-111	0-4'	2/16/2023	0	38	238	ND	ND	ND	ND	ND	ND	ND	95
WES23-117	0-4'	2/17/2023	1	31	405	ND	ND	ND	ND	ND	ND	ND	290
WES23-120	0-4'	2/17/2023	1	84	323	ND	ND	ND	ND	ND	ND	ND	220
WES23-122	0-4'	2/17/2023	0	264	523	ND	ND	ND	23	ND	23	23	410
WES23-125	0-4'	2/20/2023	1	186	618	ND	ND	ND	ND	ND	ND	ND	560
WES23-130	0-4'	2/21/2023	0	24	255	ND	ND	ND	ND	ND	ND	ND	180
WES23-140	0-4'	2/23/23023	0	52	530	ND	ND	ND	ND	ND	ND	ND	390

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and green strikethrough indicates exceedance outside of NMOCD Closure Criteria

Client Name: EOG Resources, Inc.

Site Name: Glass Kincaid OS 1

NMOCD Tracking #: nAPP2300530365

Project #: 22E-00716-03

Lab Report(s): 2301585, 2301868, 2301990, 2302004, 2302494, 2302495, 2302646, 2302849, 2302934, 2302A13, 2302B03, 2302B47, 2303002, 2303088, 2303

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BES23-01	4'	1/20/2023	-	-	-	ND	ND	ND	18	ND	18	18	3900
BES23-02	4'	1/20/2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	2200
BES23-03	4'	1/20/2023	-	-	-	ND	ND	ND	15	ND	15	15	2100
BES23-04	4'	1/20/2023	-	-	-	ND	ND	ND	190	140	190	330	1900
BES23-05	4'	1/20/2023	-	-	-	ND	ND	ND	32	ND	32	32	2100
BES23-06	4'	1/20/2023	-	-	-	ND	ND	ND	49	ND	49	49	1600
BES23-07	4'	1/20/2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	2300
BES23-08	4'	1/20/2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	2000
BES23-09	4'	1/20/2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	2300
BES23-10	4'	1/20/2023	-	-	-	ND	ND	ND	15	ND	15	15	4800
BES23-11	4'	2/07/2023	-	75	2,700	ND	ND	ND	57	56	57	113	910
BES23-12	4'	2/07/2023	-	87	1,450	ND	ND	ND	13	ND	13	13	1000
BES23-13	4'	2/07/2023	-	156	1,670	ND	ND	ND	20	ND	20	20	1200
BES23-14	4'	2/07/2023	-	127	1,760	ND	ND	ND	21	ND	21	21	1200
BES23-15	4'	2/16/2023	0	38	1,188	ND	ND	ND	ND	ND	ND	ND	990
BES23-16	4'	2/16/2023	0	28	1,113	ND	ND	ND	ND	ND	ND	ND	920
BES23-17	4'	2/16/2023	0	39	998	ND	ND	ND	ND	ND	ND	ND	760
BES23-18	4'	2/16/2023	0	28	960	ND	ND	ND	ND	ND	ND	ND	680
BES23-19	4'	2/21/2023	0	38	265	ND	ND	ND	ND	ND	ND	ND	230
BES23-20	4'	2/21/2023	0	36	298	ND	ND	ND	ND	ND	ND	ND	160
BES23-21	4'	2/21/2023	0	44	195	ND	ND	ND	ND	ND	ND	ND	68
BES23-22	4'	2/21/2023	0	53	360	ND	ND	ND	ND	ND	ND	ND	210
BES23-23	4'	2/21/2023	0	80	343	ND	ND	ND	ND	ND	ND	ND	240
BES23-24	4'	2/21/2023	0	76	1,228	ND	ND	ND	ND	ND	ND	ND	850
BES23-25	4'	2/21/2023	0	148	985	ND	ND	ND	ND	ND	ND	ND	1000
BES23-26	4'	2/21/2023	0	94	1,125	ND	ND	ND	ND	ND	ND	ND	940
BES23-27	4'	2/23/2023	0	100	918	ND	ND	ND	ND	ND	ND	ND	710
BES23-28	4'	2/23/2023	0	48	522	ND	ND	ND	ND	ND	ND	ND	400
BES23-29	4'	2/23/2023	0	27	533	ND	ND	ND	ND	ND	ND	ND	330
BES23-30	4'	2/23/2023	0	89	1,268	ND	ND	ND	ND	ND	ND	ND	1100
BES23-31	4'	2/23/2023	0	60	1,143	ND	ND	ND	ND	ND	ND	ND	780
BES23-32	4'	2/23/2023	0	55	908	ND	ND	ND	ND	ND	ND	ND	790
BES23-33	4'	2/24/2023	0	52	1,475	ND	ND	ND	ND	ND	ND	ND	1300
BES23-34	4'	2/24/2023	0	89	1,353	ND	ND	ND	ND	ND	ND	ND	1300
BES23-35	4'	2/24/2023	15	983	1,225	ND	ND	ND	1100	590	1100	1690	1100
BES23-35	4.5'	3/03/2023	0	54	2,335	ND	ND	ND	ND	ND	ND	ND	2300
BES23-36	4'	2/24/2023	15	843	895	ND	ND	ND	340	240	340	580	730
BES23-37	4'	2/24/2023	0	321	1,743	ND	ND	ND	18	ND	18	18	1900
BES23-38	4'	2/24/2023	0	1,168	2,097	ND	ND	ND	230	250	230	480	2200
BES23-39	4'	2/24/2023	0	244	2,092	ND	ND	ND	22	ND	22	22	1700
BES23-40	4'	2/24/2023	0	79	1,398	ND	ND	ND	ND	ND	ND	ND	1200
BES23-41	4'	2/24/2023	0	106	1,523	ND	ND	ND	ND	ND	ND	ND	1000
BES23-42	4'	2/24/2023	0	176	1,753	ND	ND	ND	29	ND	29	29	1400
BES23-43	4'	2/24/2023	0	0	3,028	ND	ND	ND	32	ND	32	32	2900
BES23-44	4'	2/24/2023	0	147	3,183	ND	ND	ND	ND	ND	ND	ND	2300
BES23-45	4'	2/27/2023	1	168	3,260	ND	ND	ND	12	ND	12	12	3100
BES23-46	4'	2/27/2023	0	110	2,520	ND	ND	ND	ND	ND	ND	ND	2400
BES23-47	4'	2/27/2023	1	65	1,485	ND	ND	ND	ND	ND	ND	ND	790
BES23-48	4'	2/27/2023	1	153	1,193	ND	ND	ND	12	ND	12	12	870
BES23-49	4'	2/27/2023	0	59	843	ND	ND	ND	ND	ND	ND	ND	600
BES23-50	4'	2/27/2023	1	121	955	ND	ND	ND	14	ND	14	14	630
BES23-51	4'	2/27/2023	1	36	1,575	ND	ND	ND	ND	ND	ND	ND	850
BES23-52	4'	2/27/2023	1	46	1,360	ND	ND	ND	ND	ND	ND	ND	830

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BES23-53	4'	2/27/2023	1	69	1,430	ND	ND	ND	ND	ND	ND	ND	970
BES23-54	4'	2/27/2023	1	63	1,655	ND	ND	ND	ND	ND	ND	ND	1200
BES23-55	4'	2/27/2023	1	157	2,148	ND	ND	ND	ND	ND	ND	ND	1400
BES23-56	4'	2/27/2023	1	85	1,715	ND	ND	ND	ND	ND	ND	ND	1400
BES23-57	4'	2/27/2023	0	57	1,638	ND	ND	ND	ND	ND	ND	ND	840
BES23-58	4'	2/28/2023	0	55	838	ND	ND	ND	ND	ND	ND	ND	590
BES23-59	4'	2/28/2023	0	69	1,550	ND	ND	ND	ND	ND	ND	ND	1200
BES23-60	4'	2/28/2023	1	94	1,825	ND	ND	ND	ND	ND	ND	ND	1500
BES23-61	4'	2/28/2023	1	58	1,248	ND	ND	ND	ND	ND	ND	ND	890
BES23-62	4'	2/28/2023	0	52	1,393	ND	ND	ND	ND	ND	ND	ND	1200
BES23-63	4'	2/28/2023	1	62	1,753	ND	ND	ND	ND	ND	ND	ND	1400
BES23-64	4'	2/28/2023	0	64	1,578	ND	ND	ND	ND	ND	ND	ND	970
BES23-65	4'	2/28/2023	0	72	1,193	ND	ND	ND	ND	ND	ND	ND	940
BES23-66	4'	2/28/2023	0	60	983	ND	ND	ND	ND	ND	ND	ND	640
BES23-67	4'	2/28/2023	0	53	1,160	ND	ND	ND	ND	ND	ND	ND	730
BES23-68	4'	2/28/2023	1	2	1,833	ND	ND	ND	ND	ND	ND	ND	1200
BES23-69	4'	2/28/2023	0	72	2,198	ND	ND	ND	ND	ND	ND	ND	1700
BES23-70	4'	3/01/2023	1	50	643	ND	ND	ND	ND	ND	ND	ND	370
BES23-71	4'	3/01/2023	1	110	793	ND	ND	ND	ND	ND	ND	ND	600
BES23-72	4'	3/01/2023	1	188	2,723	ND	ND	ND	16	ND	16	16	2400
BES23-73	4'	3/01/2023	1	175	3,635	ND	ND	ND	11	ND	11	11	3600
BES23-74	4'	3/01/2023	1	225	3,543	ND	ND	ND	13	ND	13	13	3100
BES23-75	4'	3/01/2023	1	226	1,370	ND	ND	ND	20	ND	20	20	4100
BES23-76	4'	3/01/2023	1	204	3,250	ND	ND	ND	12	ND	12	12	2600
BES23-77	4'	3/01/2023	-	128	2,198	ND	ND	ND	14	ND	14	14	2000
BES23-78	4'	3/01/2023	-	97	1,460	ND	ND	ND	ND	ND	ND	ND	1200
BES23-79	4'	3/01/2023	-	75	763	ND	ND	ND	ND	ND	ND	ND	520
BES23-80	4'	3/01/2023	-	59	763	ND	ND	ND	ND	ND	ND	ND	460
BES23-81	4'	3/02/2023	-	63	910	ND	ND	ND	ND	ND	ND	ND	770
BES23-82	4'	3/02/2023	-	69	1,275	ND	ND	ND	ND	ND	ND	ND	1100
BES23-83	4'	3/02/2023	-	115	680	ND	ND	ND	ND	ND	ND	ND	550
BES23-84	4'	3/02/2023	-	86	770	ND	ND	ND	ND	ND	ND	ND	700
BES23-85	4'	3/02/2023	-	38	530	ND	ND	ND	ND	ND	ND	ND	510
BES23-86	4'	3/02/2023	-	97	1,020	ND	ND	ND	ND	ND	ND	ND	870
BES23-87	4'	3/02/2023	-	81	1,828	ND	ND	ND	ND	ND	ND	ND	1900
BES23-88	4'	3/02/2023	-	62	1,188	ND	ND	ND	ND	ND	ND	ND	1100
BES23-89	4'	3/02/2023	-	202	1,063	ND	ND	ND	ND	ND	ND	ND	1400
BES23-90	4'	3/02/2023	-	492	1,580	ND	ND	ND	ND	ND	ND	ND	910
WES23-11	0-4'	1/13/2023	-	55	525	ND	ND	ND	ND	ND	ND	ND	350
WES23-92	0-4'	2/08/2023	-	72	580	ND	ND	ND	ND	ND	ND	ND	300
WES23-93	0-4'	2/08/2023	-	54	568	ND	ND	ND	ND	ND	ND	ND	220
WES23-105	0-4'	2/13/2023	-	18	495	ND	ND	ND	ND	ND	ND	ND	ND
WES23-106	0-4'	2/13/2023	-	25	665	ND	ND	ND	ND	ND	ND	ND	520
WES23-107	0-4'	2/13/2023	-	40	615	ND	ND	ND	ND	ND	ND	ND	360
WES23-108	0-4'	2/13/2023	-	40	355	ND	ND	ND	ND	ND	ND	ND	350
WES23-111	0-4'	2/16/2023	0	38	238	ND	ND	ND	ND	ND	ND	ND	95
WES23-117	0-4'	2/17/2023	1	31	405	ND	ND	ND	ND	ND	ND	ND	290
WES23-120	0-4'	2/17/2023	1	84	323	ND	ND	ND	ND	ND	ND	ND	220
WES23-122	0-4'	2/17/2023	0	264	523	ND	ND	ND	23	ND	23	23	410
WES23-125	0-4'	2/20/2023	1	186	618	ND	ND	ND	ND	ND	ND	ND	560
WES23-130	0-4'	2/21/2023	0	24	255	ND	ND	ND	ND	ND	ND	ND	180
WES23-140	0-4'	2/23/23023	0	52	530	ND	ND	ND	ND	ND	ND	ND	390

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and green strikethrough indicates exceedance outside of NMOCD Closure Criteria

ATTACHMENT 4

1 Distance to OSE POD



1/31/2023, 10:24:54 AM

Override 1

OSE District Boundary

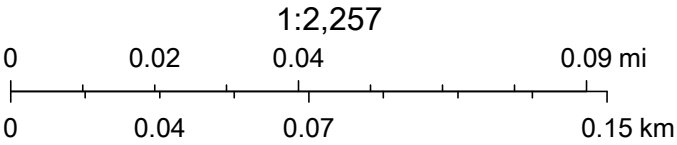
SiteBoundaries

GIS WATERS PODs

Water Right Regulations

Pending

Closure Area



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 13243 POD 1	RA	ED		4	3	3	06	19S	25E	544060	3616318	271	105		
RA 03959	RA	ED			2	4	12	19S	24E	543589	3615225*	925	545	265	280
RA 06436	RA	ED		3	1	4	12	19S	24E	543083	3615122*	1274		300	
RA 05331	RA	ED		1	1	4	05	19S	25E	546308	3616955*	2548	460	305	155
RA 13230 POD 1	RA	ED		4	2	2	14	19S	24E	542086	3614287	2565	105		
RA 04426	RA	CH			4	3	18	19S	25E	544412	3613201*	2935	715		
RA 06418	RA	ED		1	2	3	17	19S	25E	545925	3613710*	3120	120	72	48
RA 08148	RA	ED		3	3	1	36	18S	24E	542252	3618748*	3130	508		
RA 11061 POD1	RA	ED			4	2	35	18S	24E	541949	3618852*	3384	450	364	86
RA 03960	RA	ED			2	2	10	19S	24E	540341	3616025*	3569	440	335	105
RA 04335	RA	CH			1	1	32	18S	25E	545580	3619275*	3594	400	300	100
RA 11654 POD1	RA	ED			3	2	19	19S	25E	544959	3612514	3728	500		
RA 04726	RA	ED			3	2	19	19S	25E	544825	3612390*	3814	390	310	80
RA 13117 POD1	RA	ED		3	4	1	24	19S	24E	542743	3612369	3901		102	
RA 13117 POD2	RA	ED		3	4	1	24	19S	24E	542730	3612364	3910		102	
RA 05333	RA	ED			2	2	09	19S	25E	548430	3616046*	4520	315	260	55
RA 05900	RA	ED			2	2	16	19S	25E	548442	3614424*	4829	185	95	90

Average Depth to Water: **234 feet**

Minimum Depth: **72 feet**

Maximum Depth: **364 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 543909.55

Northing (Y): 3616092.77

Radius: 5000

*UTM location was derived from PLSS - see Help

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

2/5/23 11:47 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

1 OSE 0.5 mile radius



1/31/2023, 10:35:21 AM

GIS WATERS PODs

- Active
- Pending

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Subsurface Estate

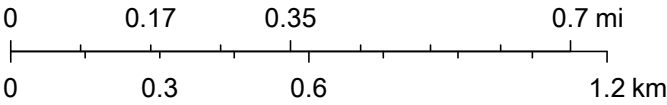


Both Estates



SiteBoundaries

1:18,056




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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	RA 13243 POD 1	4	3	3	06	19S	25E	544060	3616318 

Driller License: 1670 **Driller Company:** HARRISON & COOPER, INC. (WD-1670)

Driller Name: KENNY COOPER

Drill Start Date: 09/26/2022

Drill Finish Date: 09/26/2022

Plug Date:

Log File Date: 12/09/2022

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 105 feet

Depth Water:

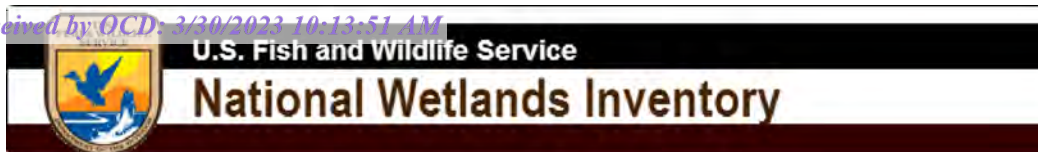
Casing Perforations:	Top	Bottom
	95	105

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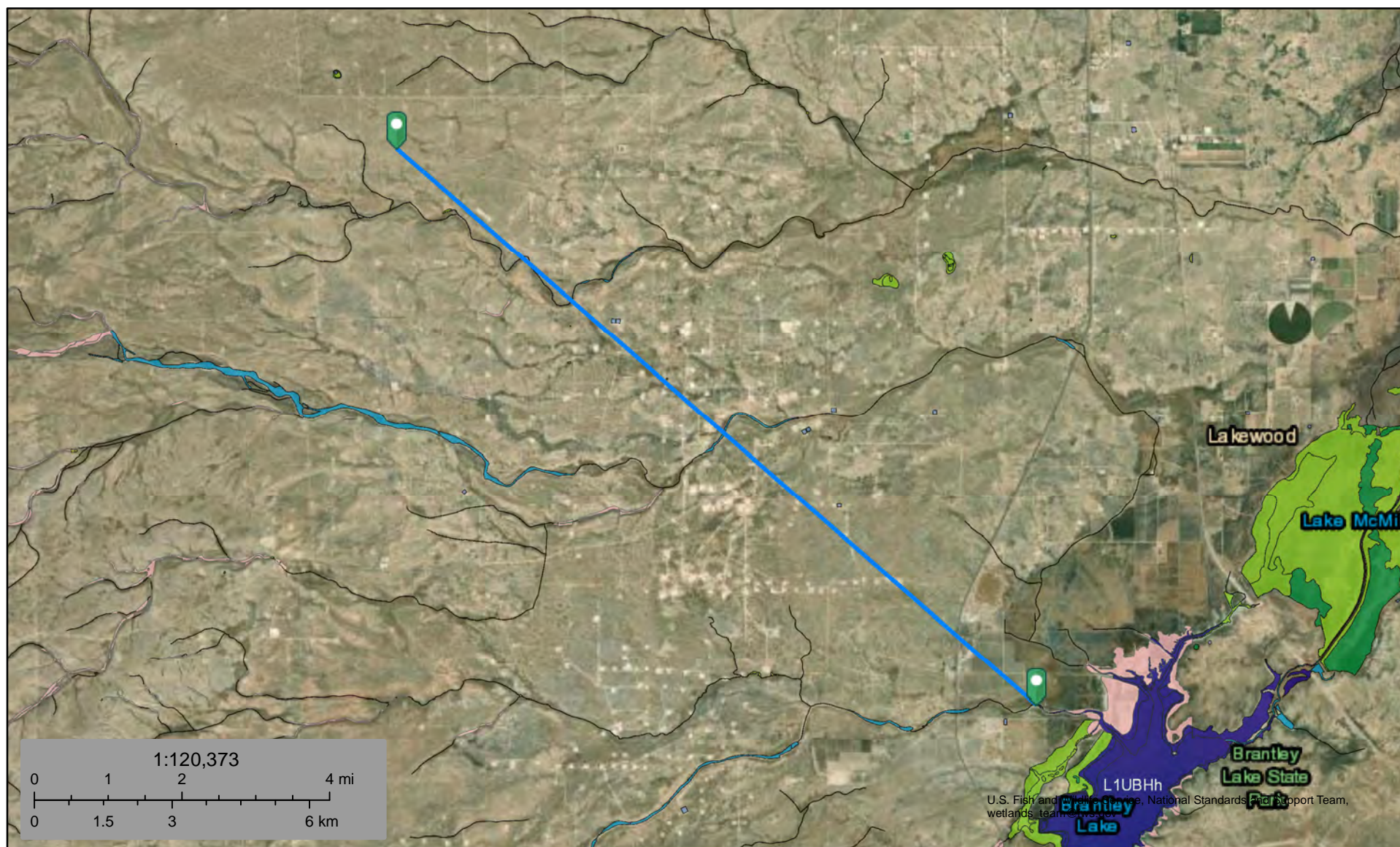
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Page 1 of 1

POD SUMMARY - RA 13243 POD 1



Glass Kincaid Watercourse 51,019ft



February 5, 2023

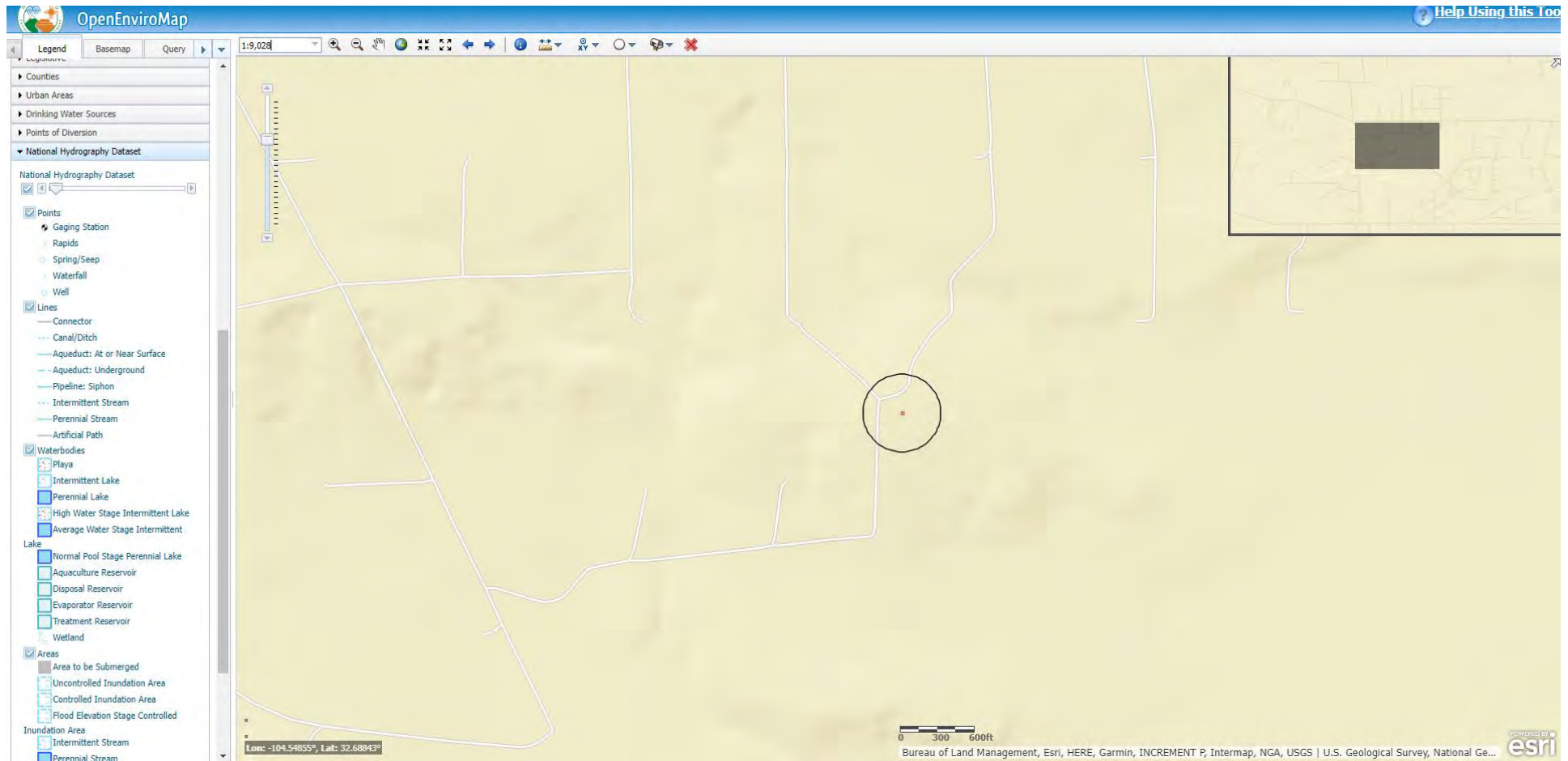
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

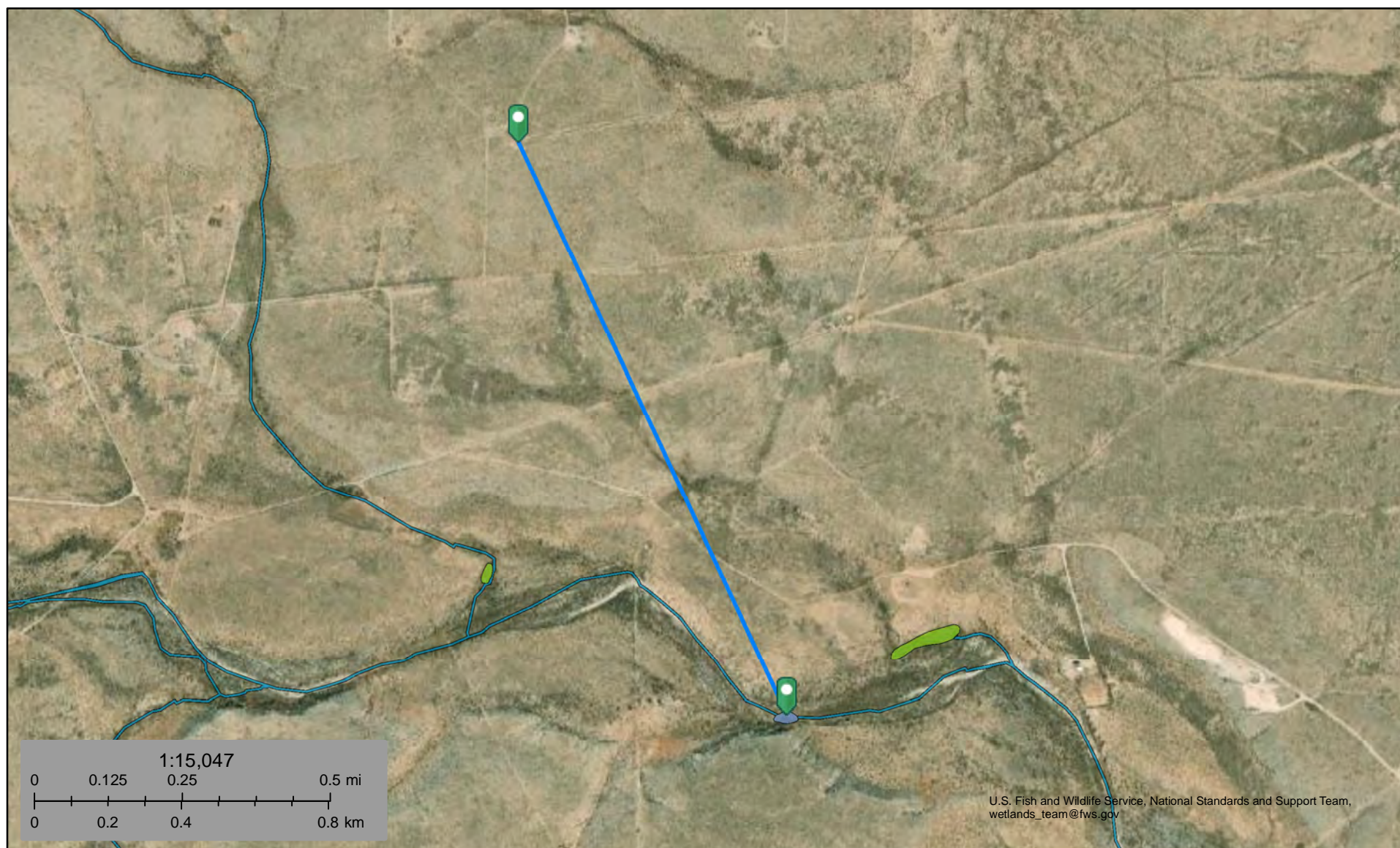
- Lake
- Other
- Riverine

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Glass Kincaid Wetland 4,737 ft.



February 5, 2023

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.

Glass Kincaid

Nearest Residence: 10,510 ft.

Legend

 32.681653, -104.531633

32.681653, -104.531633 

Google Earth

Released to Imaging: 8/15/2023 1:53:51 PM



1 km



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: RA 03959 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: JAMES H AND BETTY R HOWELL REVOCABLE TRUST
Contact: ALAN R HOWELL

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
get images	507615	COWNF	2012-07-11	CHG	PRC	RA 03959	T		3
	255603	72121	1958-11-19	PMT	LOG	RA 03959	T		3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
RA 03959				2	4	12 19S 24E	543589	3615225*	

An () after northing value indicates UTM location was derived from PLSS - see Help

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1/31/23 10:45 AM






WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance
RA 13243	RA	EXP		0 EOG RESOURCES INC	ED	RA 13243 POD 1	NA				4	3	3	06	19S	25E	544060	3616318	 271
RA 03959	RA	STK		3 JAMES H AND BETTY R HOWELL REVOCABLE TRUST	ED	RA 03959					2	4	12	19S	24E		543589	3615225*	 925
RA 05286	RA	PRO		3 EOG Y RESOURCES INC	ED	RA 05286 (2A)				Shallow				06	19S	25E	544587	3617042*	 1166
RA 06436	RA	STK		43.5 JAMES H & BETTY R HOWELL REVOCABLE TRUST	ED	RA 06436				Shallow	3	1	4	12	19S	24E	543083	3615122*	 1274
RA 13238	RA	EXP		0 EOG RESOURCES INC	ED	RA 13238 POD1	NA				2	3	2	01	19S	24E	543237	3617424	 1491

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 543909.55

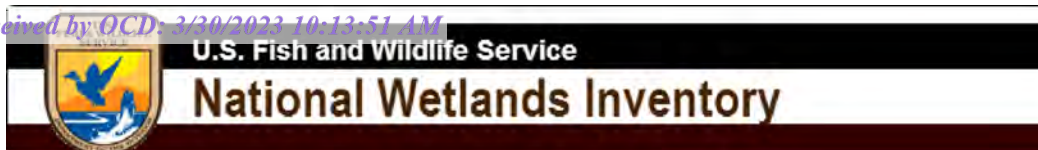
Northing (Y): 3616092.77

Radius: 1610

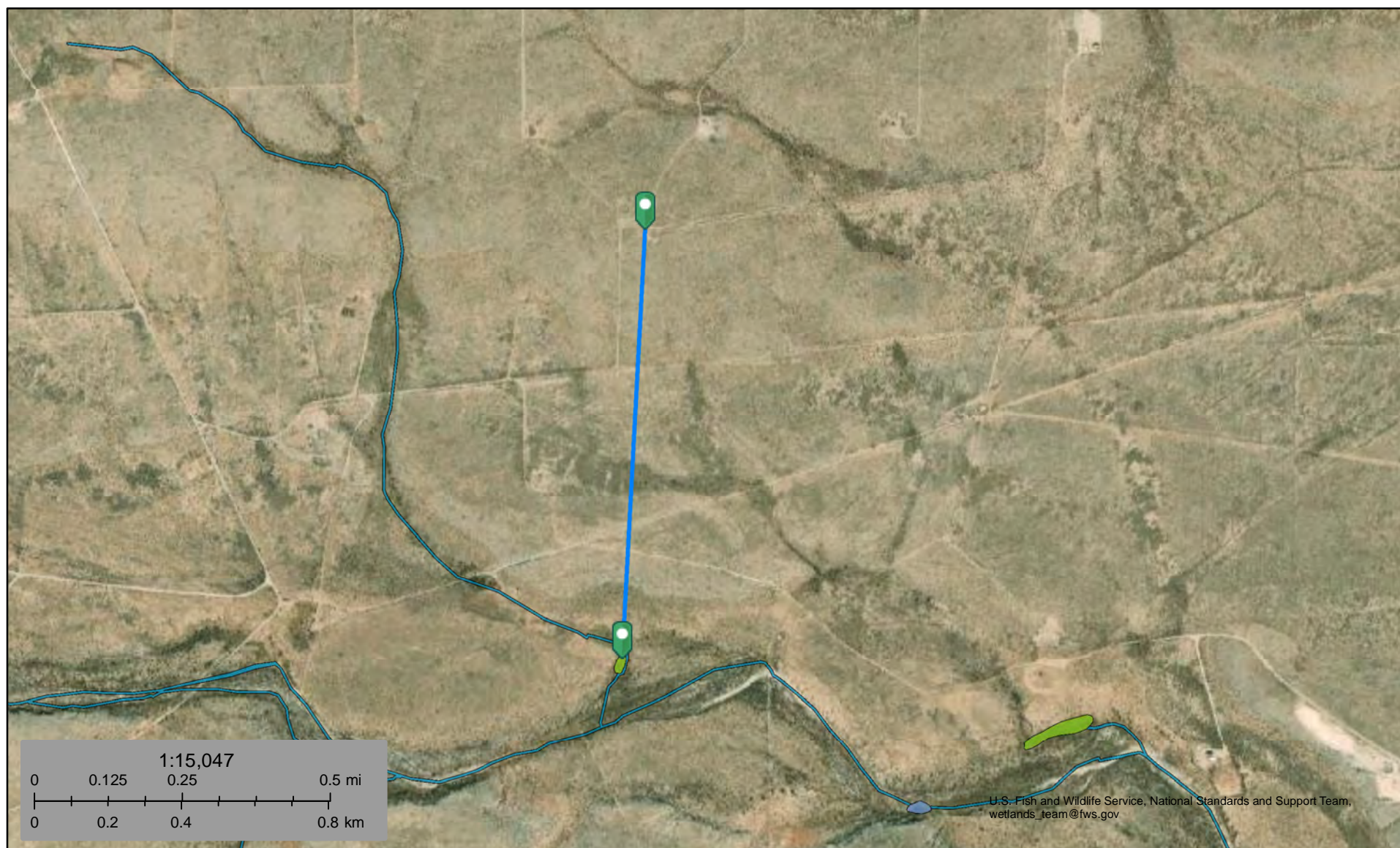
Sorted by: Distance

*UTM location was derived from PLSS - see Help

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Glass Kincaid Wetland 3,218 ft.



February 5, 2023

Wetlands

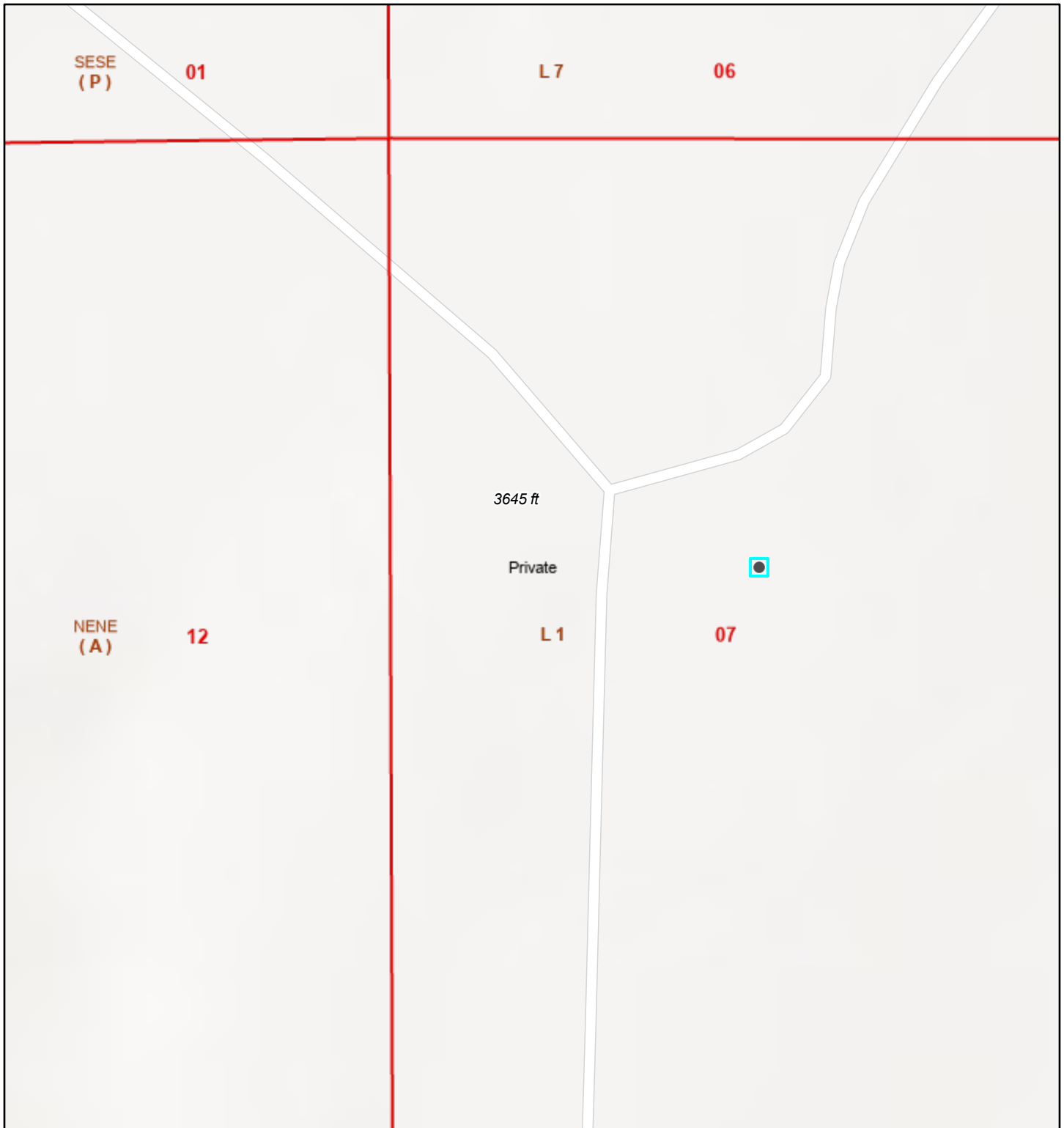
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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Active Mines in New Mexico



2/5/2023, 1:11:58 PM

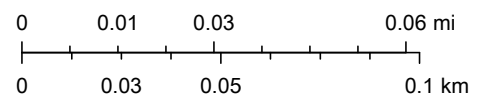
Land Ownership

P

 PLSS Second Division

 PLSS First Division

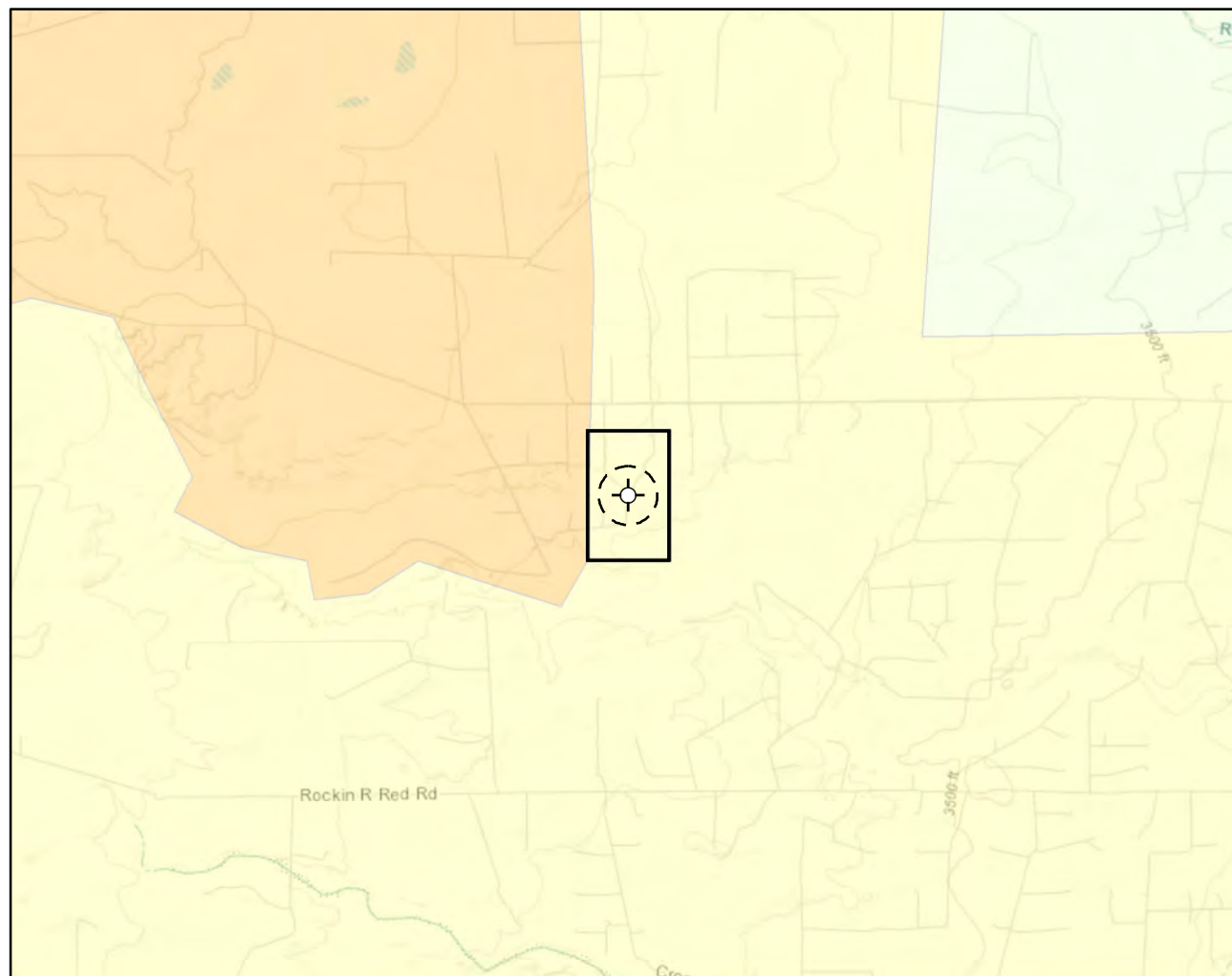
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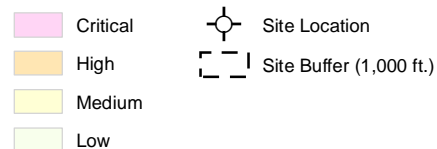
U.S. BLM, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Sources: Esri, Airbus DS, USGS, NGA, NASA,

EMNRD MMD GIS Coordinator

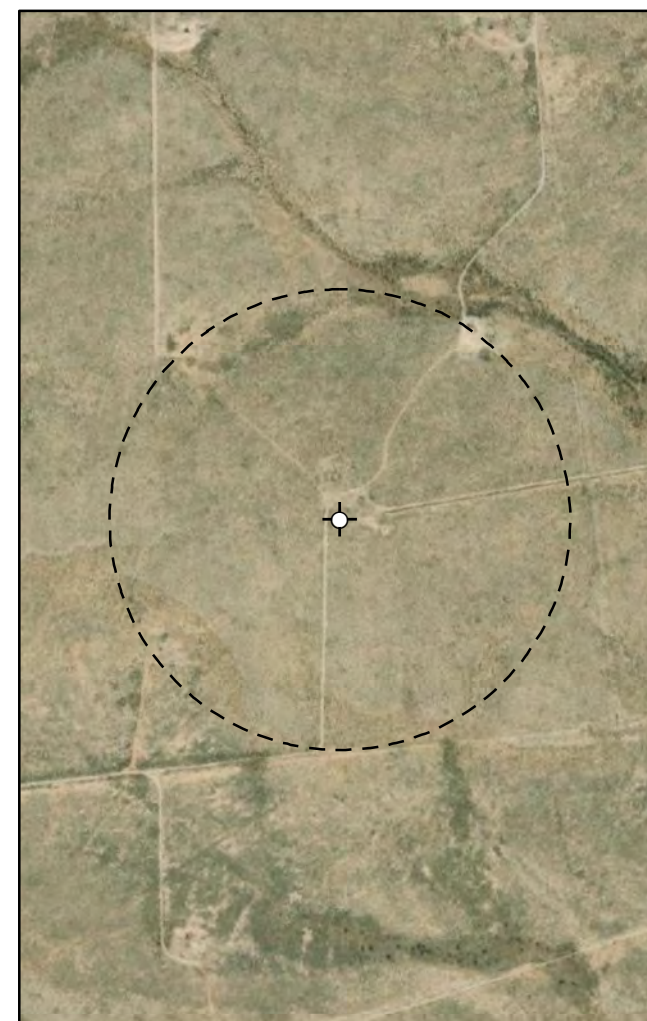
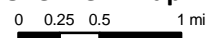
Document Path: \\vws-4s01.corp.internal\shared\p04 - Geomatics\1-Projects\US PROJECTS\IEOG Resources Inc\22E-00716 (Howell Ranch Reclamation Project)\003 - Glass Kincaid OS#1\Figure X Karst Potential (Glass Kincaid OS#1).mxd



Karst Potential



Overview Map



Detail Map



Map Center:
Lat/Long: 32.681653, -104.532000

NAD 1983 UTM Zone 13N
Date: Feb 08/23



Karst Potential Map Glass Kincaid OS#1

FIGURE:

X



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Inset Map, ESRI 2021; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



104°32'14"W 32°41'11"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/28/2022 at 1:30 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

104°31'36"W 32°40'40"N



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

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

Custom Soil Resource Report for Eddy Area, New Mexico



February 5, 2023

Preface

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

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

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

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

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

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

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How Soil Surveys Are Made

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

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

Custom Soil Resource Report

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

Soil Map

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


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UG	Upton gravelly loam, 0 to 9 percent slopes	1.0	100.0%
Totals for Area of Interest		1.0	100.0%

Map Unit Descriptions

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

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

Custom Soil Resource Report

Eddy Area, New Mexico**UG—Upton gravelly loam, 0 to 9 percent slopes****Map Unit Setting**

National map unit symbol: 1w64
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Upton**Setting**

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

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Custom Soil Resource Report

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

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Custom Soil Resource Report

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Ecological site R070BC025NM Shallow

Accessed: 02/05/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

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 knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range from 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–25%
Aspect	Aspect is not a significant factor

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 180 to 220 days. The last killing frost is 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. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at 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)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils:

Lozier
Potter
Tencee
Upton
Ector
Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam (2) Extremely gravelly loam (3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	4–20 in
Surface fragment cover <=3"	15–40%
Available water capacity (0–40in)	1 in
Calcium carbonate equivalent (0–40in)	15–60%

Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

Ecological dynamics

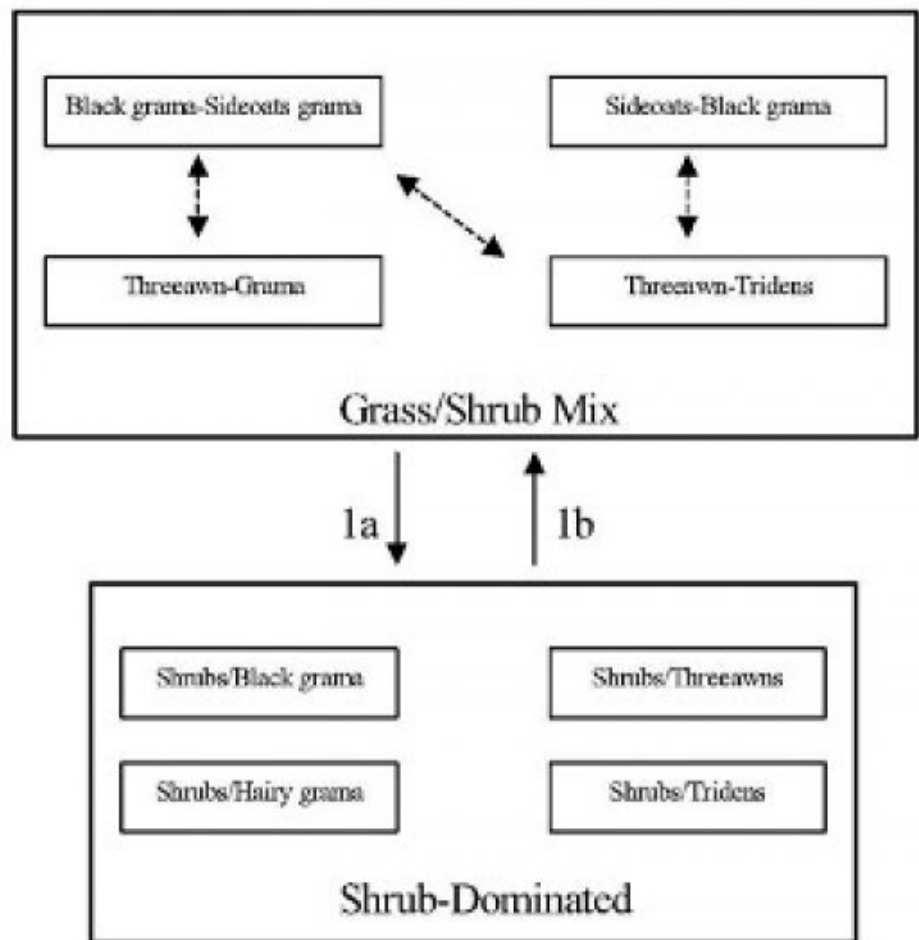
Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

State 1

Grass/Shrub Mix

Community 1.1

Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition. Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	168	352	536
Shrub/Vine	63	131	200
Forb	20	42	64
Total	251	525	800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

**Figure 5. Plant community growth curve (percent production by month).
NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC Warm
Season Plant Community.**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2 Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging

from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces. Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.³ Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion. Key indicators of approach to transition: *Decrease or change in composition or distribution of grass cover. *Increase in size and frequency of bare patches. *Increase in amount of shrub seedlings. Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1				105–158	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	105–158	–
2				79–105	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	79–105	–
3				79–105	
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	79–105	–
	hairy grama	BOHI2	<i>Bouteloua hirsuta</i>	79–105	–
4				26–53	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	26–53	–
5				16–26	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	16–26	–
6				26–53	
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	26–53	–
7				16–26	
	hairy woollygrass	ERPI5	<i>Erioneuron pilosum</i>	16–26	–
8				5–16	
	ear muhly	MUAR	<i>Muhlenbergia arenacea</i>	5–16	–
9				5–16	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	5–16	–
10				5–16	
	low woollygrass	DAPU7	<i>Dasyochloa pulchella</i>	5–16	–
11				16–26	
	Grass, perennial	2GP	<i>Grass, perennial</i>	16–26	–
Forb					
12				11–26	
	stemless four-nerve daisy	TEACE	<i>Tetraneuris acaulis</i> var. <i>epunctata</i>	11–26	–
13				5–16	
	woolly groundsel	PACA15	<i>Packera cana</i>	5–16	–

14				5-16	
	globemallow	SPHAE	<i>Sphaeralcea</i>	5-16	—
15				5-16	
	bladderpod	LESQU	<i>Lesquerella</i>	5-16	—
16				5-16	
	cassia	CASSI	<i>Cassia</i>	5-16	—
17				11-26	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	11-26	—
Shrub/Vine					
18				5-16	
	littleleaf sumac	RHMI3	<i>Rhus microphylla</i>	5-16	—
19				5-16	
	creosote bush	LATR2	<i>Larrea tridentata</i>	5-16	—
20				5-16	
	littleleaf ratany	KRER	<i>Krameria erecta</i>	5-16	—
21				5-16	
	javelina bush	COER5	<i>Condalia ericoides</i>	5-16	—
22				5-16	
	American tarwort	FLCE	<i>Flourensia cernua</i>	5-16	—
23				5-16	
	crown of thorns	KOSP	<i>Koeberlinia spinosa</i>	5-16	—
24				11-26	
	honey mesquite	PRGL2	<i>Prosopis glandulosa</i>	11-26	—
	honey mesquite	PRGL2	<i>Prosopis glandulosa</i>	11-26	—
25				5-16	
	catclaw mimosa	MIACB	<i>Mimosa aculeaticarpa var. biuncifera</i>	5-16	—
26				5-16	
	pricklypear	OPUNT	<i>Opuntia</i>	5-16	—
27				11-26	
	mariola	PAIN2	<i>Parthenium incanum</i>	11-26	—
	mariola	PAIN2	<i>Parthenium incanum</i>	11-26	—
28				5-16	
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	5-16	—
29				16-26	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	16-26	—

Animal community

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, marbled whiptail, and greater earless lizard. Where associated with limestone hills, mule deer utilize this site.

Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and

Swainson's hawk nest.

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

Lozier----- D

Potter----- C

Tencee----- D

Upton----- C

Kimbrough----- D

Upton----- D

Ector----- D

Recreational uses

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood products

This site has no potential for wood production.

Other products

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush, catclaw, and mesquite. This site will respond best 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----- 3.7 – 4.5

75 – 51----- 4.3 – 5.5

50 – 26----- 5.3 – 10.0

25 – 0----- 10.1 +

Inventory data 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 (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

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2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.

3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: <http://www.statlab.iastate.edu/survey/SQL/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):

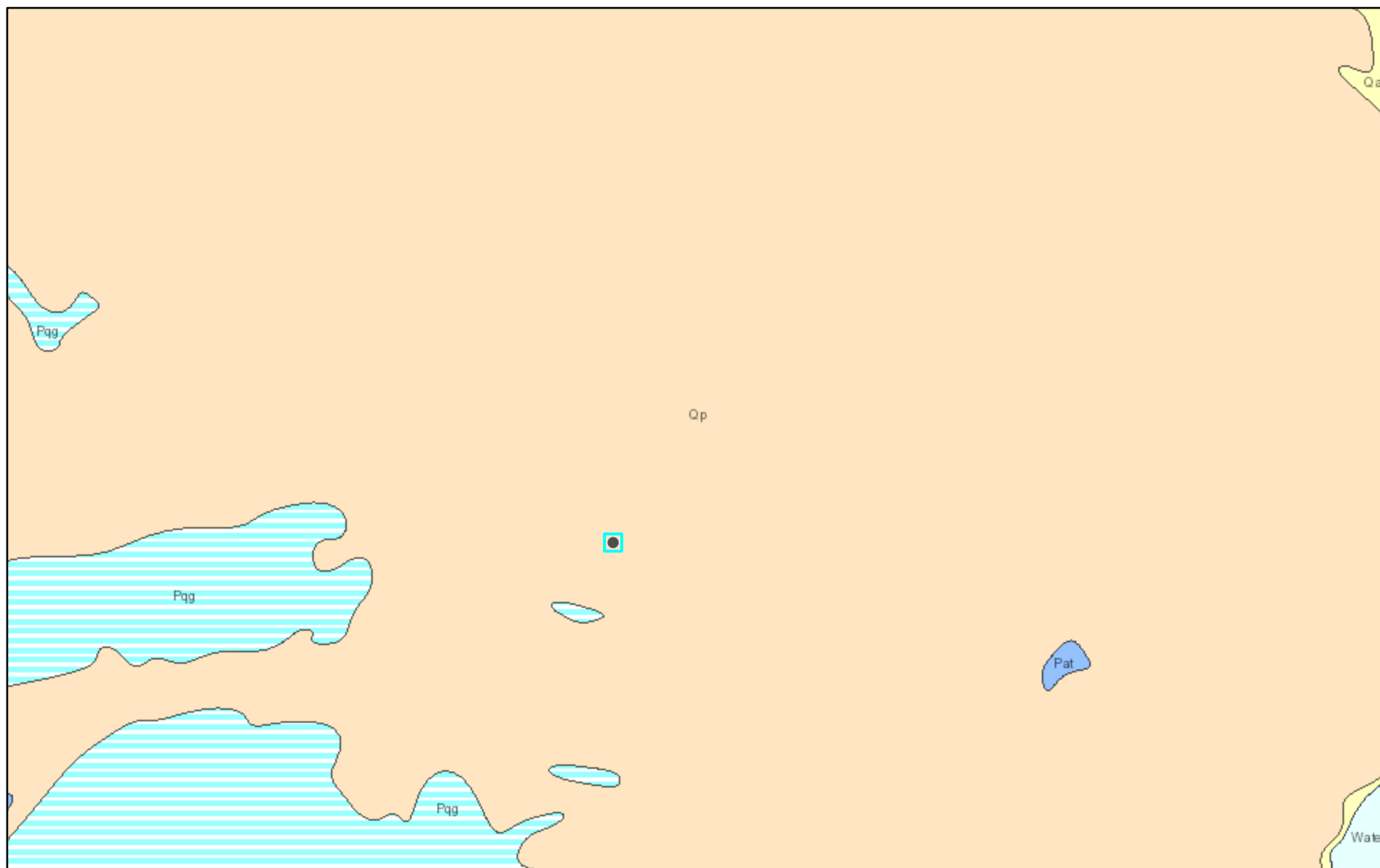
5. Number of gullies and erosion associated with gullies:

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):**
-
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 annual-production):**
-
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:**
-

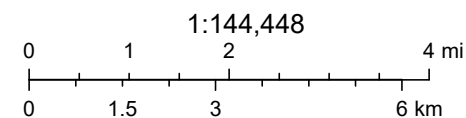
ArcGIS Web Map



2/5/2023, 1:24:28 PM

Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System,

ArcGIS Web AppBuilder



Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	6/24/2022
Site Location Name:	Glass Kincaid OS #1	Report Run Date:	6/24/2022 10:26 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	6/24/2022 11:00 AM
Departed Site	6/24/2022 11:32 AM

Field Notes

11:03 Arrived on-site at 1100

11:52 Bare patches southeast of pad near riser

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Large bare patch west of riser

Viewing Direction: North



Smaller bare patch west of riser

Viewing Direction: Southeast



Bare patch southeast of riser

Viewing Direction: Northwest



Flagging and paint delineating patch



Daily Site Visit Report

Viewing Direction: South



Flagging and paint delineating patch

Viewing Direction: Northeast



Flagging and paint delineating patch

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Michael Barnes

Signature:

A handwritten signature in black ink, appearing to be 'MB', written over a thin horizontal line. Below the line, the word 'Signature' is printed in a small font.



Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/15/2023
Site Location Name:	Glass Kincaid OS #1	Report Run Date:	3/16/2023 12:29 AM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site 3/15/2023 4:15 PM

Departed Site 3/15/2023 4:30 PM

Field Notes

16:19 Arrived on site to document completed excavation

Next Steps & Recommendations

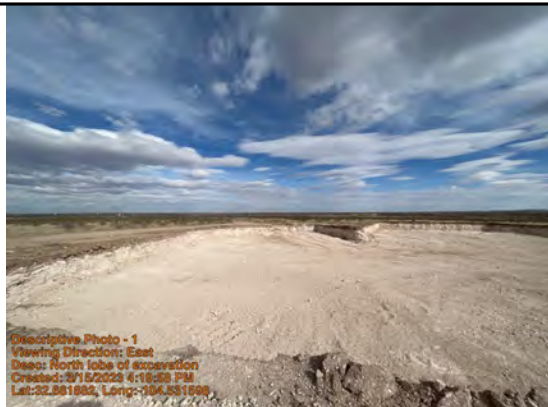
1 Submit report for closure



Daily Site Visit Report

Site Photos

Viewing Direction: East



North lobe of excavation

Viewing Direction: North



Center of excavation

Viewing Direction: North



West side of excavation





Viewing Direction: East



South wall of excavation







Daily Site Visit Report

<p>Viewing Direction: East</p>  <p>Descriptive Photo - 13 Viewing Direction: East Desc: South leg of excavation Created: 3/15/2023 4:27:51 PM Lat:32.681755, Long:-104.531666</p> <p>South leg of excavation</p>	<p>Viewing Direction: Northeast</p>  <p>Descriptive Photo - 14 Viewing Direction: Northeast Desc: North lobe of excavation Created: 3/15/2023 4:28:27 PM Lat:32.681806, Long:-104.531646</p> <p>North lobe of excavation</p>
<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 15 Viewing Direction: Southwest Desc: West side of excavation Created: 3/15/2023 4:28:51 PM Lat:32.681795, Long:-104.531677</p> <p>West side of excavation</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 16 Viewing Direction: East Desc: Northeast wall Created: 3/15/2023 4:29:27 PM Lat:32.681776, Long:-104.531683</p> <p>Northeast wall</p>



Daily Site Visit Report

<p>Viewing Direction: Southeast</p>  <p>Descriptive Photo - 17 Viewing Direction: Southeast Desc: Site Created: 3/15/2023 4:22:56 PM Lat:32.581947, Long:-104.531798</p> <p>Site</p>	<p>Viewing Direction: South</p>  <p>Descriptive Photo - 18 Viewing Direction: South Desc: Site Created: 3/15/2023 4:22:32 PM Lat:32.582036, Long:-104.531616</p> <p>Site</p>
<p>Viewing Direction: South</p>  <p>Descriptive Photo - 2 Viewing Direction: South Desc: Excavation from northernmost point Created: 3/15/2023 4:21:30 PM Lat:32.581961, Long:-104.531398</p> <p>Excavation from northernmost point</p>	<p>Viewing Direction: West</p>  <p>Descriptive Photo - 3 Viewing Direction: West Desc: Northern lobe of excavation Created: 3/15/2023 4:21:30 PM Lat:32.581794, Long:-104.531398</p> <p>Northern lobe of excavation</p>





Daily Site Visit Report

<p>Viewing Direction: North</p>  <p>Descriptive Photo - 1 Viewing Direction: North Title: Lines cut and capped Created: 3/15/2023 4:22:11 PM Lat:32.681532, Long: -104.681532</p> <p>Lines cut and capped</p>	<p>Viewing Direction: Southeast</p>  <p>Descriptive Photo - 2 Viewing Direction: Southeast Title: Southeast lobe Created: 3/15/2023 4:22:41 PM Lat:32.681532, Long: -104.681532</p> <p>Southeast lobe</p>
<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 3 Viewing Direction: Southwest Title: Southwest side of excavation Created: 3/15/2023 4:23:14 PM Lat:32.681532, Long: -104.681532</p> <p>Southwest side of excavation</p>	<p>Viewing Direction: West</p>  <p>Descriptive Photo - 4 Viewing Direction: West Title: Excavation from easternmost point Created: 3/15/2023 4:23:41 PM Lat:32.681532, Long: -104.681532</p> <p>Excavation from easternmost point</p>



Daily Site Visit Report

Viewing Direction: Northwest	Viewing Direction: North
 <p>Descriptive Photo - 13 Viewing Direction: Northwest Desc: Excavation from southeast corner Created: 3/15/2023 4:24:15 PM Lat: 32.661451, Long: -104.511451</p>	 <p>Descriptive Photo - 8 Viewing Direction: North Desc: East side of excavation Created: 3/15/2023 4:25:55 PM Lat: 32.661451, Long: -104.511451</p>
Excavation from southeast corner	East side of excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sally Carttar

Signature:


Signature



Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/2/2023
Site Location Name:	Glass Kincaid OS #1	Report Run Date:	3/2/2023 7:58 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	3/2/2023 8:00 AM
Departed Site	3/2/2023 12:55 PM

Field Notes

- 12:44** Arrived on site for day and conducted confirmation sampling and field screening. Conducted lithology report.
- 12:47** Site excavation walls exhibit a topsoil layer of 8" with an aggregate of river rock below the topsoil of an average depth of 7".
- 12:49** Site excavation walls exhibit a caliche wall to base, below aggregate, with an average depth of 33-40".

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Topsoil layer between 8" and 18" of north wall.

Viewing Direction: West



7" of aggregate on west wall

Viewing Direction: West



36" of Caliche from base on west wall



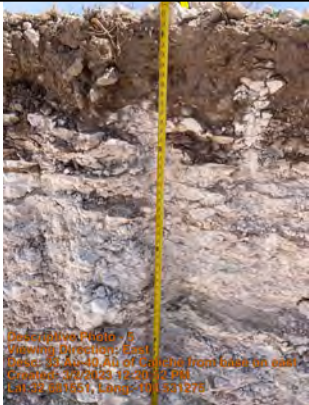

Viewing Direction: North



27"-30" of Caliche from base on north wall



Daily Site Visit Report

<p>Viewing Direction: North</p>  <p>Descriptive Photo - 3 Viewing Direction: North Desc: 8"-9" of aggregate on north Created: 3/2/2023 12:13:38 PM Lat: 32.681659, Long: -104.531930</p> <p>8"-9" of aggregate on north wall</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 4 Viewing Direction: East Desc: Topsoil layer 7" on east wall Created: 3/2/2023 12:16:38 PM Lat: 32.681651, Long: -104.531929</p> <p>Topsoil layer 7" with aggregate layer of 3"-5" on east wall</p>
<p>Viewing Direction: East</p>  <p>Descriptive Photo - 5 Viewing Direction: East Desc: 33"-40" of Caliche from base on east Created: 3/2/2023 12:21:14 PM Lat: 32.681651, Long: -104.531929</p> <p>33"-40" of Caliche from base on east wall</p>	<p>Viewing Direction: South</p>  <p>Descriptive Photo - 6 Viewing Direction: South Desc: Topsoil layer 8"-9" on south Created: 3/2/2023 12:21:35 PM Lat: 32.681651, Long: -104.531929</p> <p>Topsoil layer 8"-9" on south wall</p>



Daily Site Visit Report

Viewing Direction: South



33"-41" of Caliche from base on south wall

Viewing Direction: South



3" of intermittent aggregate on south wall

Viewing Direction: West



Topsoil layer 7" on west wall

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

A handwritten signature in black ink, appearing to read 'Steph M', written over a thin horizontal line. The word 'Signature' is printed in small text below the line on the left.

From: [Chase Settle](#)
To: [Michael Moffitt](#); [Chance Dixon](#)
Subject: FW: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: January 5, 2023 8:53:10 AM
Attachments: [image001.png](#)

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 5, 2023 8:49 AM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvt.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 12:00 p.m. on Monday, January 9, 2023 and will continue through Friday, 13, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Amber Griffin](#)
To: [Chance Dixon](#)
Cc: [Chase Settle](#)
Subject: FW: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: January 12, 2023 10:56:23 AM
Attachments: [image003.png](#)

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 12, 2023 8:19 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

FYI

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, January 12, 2023 8:12 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

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

Tina,

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

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, January 12, 2023 5:13 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>

Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>

Subject: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

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

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, January 16, 2023 and will continue through Saturday, January 21, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

Sally Carttar

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: January 19, 2023 8:20 AM
To: Artesia S&E Spill Remediation
Cc: Artesia Regulatory
Subject: FW: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

FYI

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, January 19, 2023 8:10 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

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

Tina,

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

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 19, 2023 5:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Alan & Cheryl <ahowell@pvt.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: [EXTERNAL] Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

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

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, January 23, 2023 and will continue through Friday, January 27, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Sally Carttar

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: January 26, 2023 7:19 AM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl ; Austin Weyant
Cc: Andrea Felix; Katie Jamison; Michael Yemm; Terrence Gant
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, January 30, 2023 and will continue through Friday, February 3, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: February 2, 2023 6:01:58 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, February 6, 2023 and will continue through Friday, February 10, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: February 9, 2023 5:49:44 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, February 13, 2023 and will continue through Friday, February 17, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: February 16, 2023 7:41:08 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, February 20, 2023, and will continue through Friday, February 24, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: February 23, 2023 8:11:08 AM
Attachments: [image001.png](#)

Good morning,

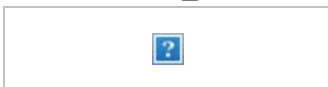
EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, February 27, 2023, and will continue through Friday, March 3, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: March 2, 2023 6:05:39 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, March 6, 2023, and will continue through Friday, March 10, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; [Alan & Cheryl](#); [Austin Weyant](#)
Cc: [Andrea Felix](#); [Katie Jamison](#); [Michael Yemm](#); [Terrence Gant](#)
Subject: Glass Kincaid OS 1 (nAPP2300530365) Sampling Notification
Date: March 9, 2023 5:21:49 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Glass Kincaid OS 1
D-7-19S-25E
Eddy County, NM
nAPP2300530365

Sampling will begin at 8:00 a.m. on Monday, March 13, 2023, and will continue through Friday, March 17, 2023.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division



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

January 25, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Glasskinaid OS 1

OrderNo.: 2301585

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/17/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301585

Date Reported: 1/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-11

Project: Glasskinaid OS 1

Collection Date: 1/13/2023 9:30:00 AM

Lab ID: 2301585-001

Matrix: SOIL

Received Date: 1/17/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2023 4:38:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2023 4:38:13 PM
Surr: DNOP	102	69-147		%Rec	1	1/20/2023 4:38:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/20/2023 11:50:44 AM
Surr: BFB	106	37.7-212		%Rec	1	1/20/2023 11:50:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/20/2023 11:50:44 AM
Toluene	ND	0.049		mg/Kg	1	1/20/2023 11:50:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/20/2023 11:50:44 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/20/2023 11:50:44 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/20/2023 11:50:44 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	350	60		mg/Kg	20	1/21/2023 11:34:06 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301585

25-Jan-23

Client: Vertex Resources Services, Inc.**Project:** Glasskinaid OS 1

Sample ID: MB-72743	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72743	RunNo: 94110								
Prep Date: 1/21/2023	Analysis Date: 1/21/2023	SeqNo: 3398042	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72743	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72743	RunNo: 94110								
Prep Date: 1/21/2023	Analysis Date: 1/21/2023	SeqNo: 3398043	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 2 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301585

25-Jan-23

Client: Vertex Resources Services, Inc.**Project:** Glasskinaid OS 1

Sample ID: LCS-72720	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72720		RunNo: 94118							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3398455		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.7	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: MB-72720	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72720		RunNo: 94118							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3398457		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	11		10.00		106	69	147			

Sample ID: 2301585-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-11	Batch ID: 72720		RunNo: 94118							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3399169		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.4	46.77	0	85.2	54.2	135			
Surr: DNOP	4.8		4.677		102	69	147			

Sample ID: 2301585-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-11	Batch ID: 72720		RunNo: 94118							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3399170		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.8	49.02	0	70.9	54.2	135	13.7	29.2	
Surr: DNOP	4.3		4.902		88.6	69	147	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301585

25-Jan-23

Client: Vertex Resources Services, Inc.**Project:** Glasskinaid OS 1

Sample ID: ics-72714	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72714			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397799		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Sample ID: ics-72715	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72715			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397800		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: ics-72717	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72717			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/21/2023			SeqNo: 3397801		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-72714	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72714			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397802		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: mb-72715	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72715			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397803		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: mb-72717	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72717			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/21/2023			SeqNo: 3397804		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301585

25-Jan-23

Client: Vertex Resources Services, Inc.**Project:** Glasskinaid OS 1

Sample ID: 2301585-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-11	Batch ID: 72714		RunNo: 94108							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3397806		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.30	0	96.8	70	130			
Surr: BFB	2100		971.8		211	37.7	212			

Sample ID: 2301585-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-11	Batch ID: 72714		RunNo: 94108							
Prep Date: 1/19/2023	Analysis Date: 1/20/2023		SeqNo: 3397807		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.30	0	95.5	70	130	1.33	20	
Surr: BFB	2000		971.8		210	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301585

25-Jan-23

Client: Vertex Resources Services, Inc.**Project:** Glasskinaid OS 1

Sample ID: LCS-72714	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72714			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397871			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	70	130			

Sample ID: LCS-72715	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72715			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397872			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: LCS-72717	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72717			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/21/2023			SeqNo: 3397873			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: mb-72714	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72714			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397874			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Sample ID: mb-72715	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72715			RunNo: 94108						
Prep Date: 1/19/2023	Analysis Date: 1/20/2023			SeqNo: 3397875			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301585
25-Jan-23

Client: Vertex Resources Services, Inc.
Project: Glasskinaid OS 1

Sample ID: mb-72717		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 72717		RunNo: 94108						
Prep Date: 1/19/2023		Analysis Date: 1/21/2023		SeqNo: 3397876			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2301585

RcptNo: 1

Received By: Juan Rojas 1/17/2023 7:45:00 AM

Completed By: Sean Livingston 1/17/2023 8:38:58 AM

Reviewed By: *Jan 17/23*

Jan 17/23

Sean Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPA 1-17-23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EOG (Vertex)Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Glase Kincaid OS#1

Project #:

22E-00716-03

Project Manager:

C. DixonSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CFI): 2.0 + 0.1 = 2.1 (°C)

Container

Type and #

402 Jar ice

Preservative

Type

2301585

HEAL No.

001

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Glase Kincaid OS#1

Project #:

22E-00716-03

Project Manager:

C. DixonSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CFI): 2.0 + 0.1 = 2.1 (°C)

Container

Type and #

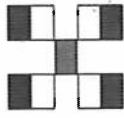
402 Jar ice

Preservative

Type

2301585

HEAL No.

001HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH: 8015D (GRO / DRO / MRO)	✓
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl ⁻ , F ⁻ , Br ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	✓
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

CC: Chance DixonDirect bill EOGReceived by: Chase SettleDate: 11/16/23Time: 1000Received by: Chase SettleDate: 11/17/23Time: 7:45

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 8/15/2023 1:53:51 PM



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

February 02, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2301868

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 10 sample(s) on 1/24/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-01 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:00:00 AM

Lab ID: 2301868-001

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3900	150		mg/Kg	50	1/30/2023 12:14:59 PM	72880
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	18	8.4		mg/Kg	1	1/27/2023 12:52:59 AM	72824
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/27/2023 12:52:59 AM	72824
Surr: DNOP	111	69-147		%Rec	1	1/27/2023 12:52:59 AM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 11:59:11 AM	72809
Surr: BFB	102	37.7-212		%Rec	1	1/31/2023 11:59:11 AM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/31/2023 11:59:11 AM	72809
Toluene	ND	0.047		mg/Kg	1	1/31/2023 11:59:11 AM	72809
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 11:59:11 AM	72809
Xylenes, Total	ND	0.093		mg/Kg	1	1/31/2023 11:59:11 AM	72809
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	1/31/2023 11:59:11 AM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 15

Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-02 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:10:00 AM

Lab ID: 2301868-002

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2200	150		mg/Kg	50	1/30/2023 12:27:51 PM	72880
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/27/2023 1:03:32 AM	72824
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/27/2023 1:03:32 AM	72824
Surr: DNOP	114	69-147		%Rec	1	1/27/2023 1:03:32 AM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 12:22:50 PM	72809
Surr: BFB	98.9	37.7-212		%Rec	1	1/31/2023 12:22:50 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/31/2023 12:22:50 PM	72809
Toluene	ND	0.047		mg/Kg	1	1/31/2023 12:22:50 PM	72809
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 12:22:50 PM	72809
Xylenes, Total	ND	0.093		mg/Kg	1	1/31/2023 12:22:50 PM	72809
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	1/31/2023 12:22:50 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-03 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:20:00 AM

Lab ID: 2301868-003

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2100	61		mg/Kg	20	1/30/2023 8:32:12 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	15	10		mg/Kg	1	1/27/2023 1:14:01 AM	72824
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/27/2023 1:14:01 AM	72824
Surr: DNOP	105	69-147		%Rec	1	1/27/2023 1:14:01 AM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 12:46:16 PM	72809
Surr: BFB	105	37.7-212		%Rec	1	1/31/2023 12:46:16 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/31/2023 12:46:16 PM	72809
Toluene	ND	0.049		mg/Kg	1	1/31/2023 12:46:16 PM	72809
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 12:46:16 PM	72809
Xylenes, Total	ND	0.099		mg/Kg	1	1/31/2023 12:46:16 PM	72809
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	1/31/2023 12:46:16 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-04 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:30:00 AM

Lab ID: 2301868-004

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	1/30/2023 9:09:24 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	190	8.5		mg/Kg	1	1/27/2023 11:58:38 AM	72824
Motor Oil Range Organics (MRO)	140	43		mg/Kg	1	1/27/2023 11:58:38 AM	72824
Surr: DNOP	113	69-147		%Rec	1	1/27/2023 11:58:38 AM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 1:09:44 PM	72809
Surr: BFB	103	37.7-212		%Rec	1	1/31/2023 1:09:44 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/31/2023 1:09:44 PM	72809
Toluene	ND	0.049		mg/Kg	1	1/31/2023 1:09:44 PM	72809
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 1:09:44 PM	72809
Xylenes, Total	ND	0.097		mg/Kg	1	1/31/2023 1:09:44 PM	72809
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	1/31/2023 1:09:44 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-05 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:40:00 AM

Lab ID: 2301868-005

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2100	60		mg/Kg	20	1/30/2023 9:21:48 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	32	8.8		mg/Kg	1	1/31/2023 1:37:51 PM	72898
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/31/2023 1:37:51 PM	72898
Surr: DNOP	85.6	69-147		%Rec	1	1/31/2023 1:37:51 PM	72898
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/31/2023 1:33:22 PM	72809
Surr: BFB	103	37.7-212		%Rec	1	1/31/2023 1:33:22 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/31/2023 1:33:22 PM	72809
Toluene	ND	0.048		mg/Kg	1	1/31/2023 1:33:22 PM	72809
Ethylbenzene	ND	0.048		mg/Kg	1	1/31/2023 1:33:22 PM	72809
Xylenes, Total	ND	0.095		mg/Kg	1	1/31/2023 1:33:22 PM	72809
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	1/31/2023 1:33:22 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-06 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 9:50:00 AM

Lab ID: 2301868-006

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1600	60		mg/Kg	20	1/30/2023 9:34:14 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	49	9.7		mg/Kg	1	1/27/2023 1:34:50 AM	72824
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/27/2023 1:34:50 AM	72824
Surr: DNOP	76.9	69-147		%Rec	1	1/27/2023 1:34:50 AM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 1:57:03 PM	72809
Surr: BFB	100	37.7-212		%Rec	1	1/31/2023 1:57:03 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/31/2023 1:57:03 PM	72809
Toluene	ND	0.049		mg/Kg	1	1/31/2023 1:57:03 PM	72809
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 1:57:03 PM	72809
Xylenes, Total	ND	0.099		mg/Kg	1	1/31/2023 1:57:03 PM	72809
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	1/31/2023 1:57:03 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-07 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 10:00:00 AM

Lab ID: 2301868-007

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2300	150		mg/Kg	50	1/31/2023 3:14:44 PM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/27/2023 12:24:53 PM	72824
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/27/2023 12:24:53 PM	72824
Surr: DNOP	81.8	69-147		%Rec	1	1/27/2023 12:24:53 PM	72824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 2:20:40 PM	72809
Surr: BFB	104	37.7-212		%Rec	1	1/31/2023 2:20:40 PM	72809
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.026	0.025		mg/Kg	1	1/31/2023 2:20:40 PM	72809
Toluene	ND	0.049		mg/Kg	1	1/31/2023 2:20:40 PM	72809
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 2:20:40 PM	72809
Xylenes, Total	ND	0.099		mg/Kg	1	1/31/2023 2:20:40 PM	72809
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	1/31/2023 2:20:40 PM	72809

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-08 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 10:10:00 AM

Lab ID: 2301868-008

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2000	59		mg/Kg	20	1/30/2023 9:59:04 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/31/2023 1:48:30 PM	72898
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/31/2023 1:48:30 PM	72898
Surr: DNOP	101	69-147		%Rec	1	1/31/2023 1:48:30 PM	72898
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/31/2023 7:07:07 PM	72819
Surr: BFB	100	37.7-212		%Rec	1	1/31/2023 7:07:07 PM	72819
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.024	0.024		mg/Kg	1	1/31/2023 7:07:07 PM	72819
Toluene	ND	0.048		mg/Kg	1	1/31/2023 7:07:07 PM	72819
Ethylbenzene	ND	0.048		mg/Kg	1	1/31/2023 7:07:07 PM	72819
Xylenes, Total	ND	0.095		mg/Kg	1	1/31/2023 7:07:07 PM	72819
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	1/31/2023 7:07:07 PM	72819

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-09 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 10:20:00 AM

Lab ID: 2301868-009

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2300	60		mg/Kg	20	1/30/2023 10:36:18 AM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/26/2023 4:06:10 PM	72830
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/26/2023 4:06:10 PM	72830
Surr: DNOP	82.8	69-147		%Rec	1	1/26/2023 4:06:10 PM	72830
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 8:17:47 PM	72819
Surr: BFB	102	37.7-212		%Rec	1	1/31/2023 8:17:47 PM	72819
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/31/2023 8:17:47 PM	72819
Toluene	ND	0.047		mg/Kg	1	1/31/2023 8:17:47 PM	72819
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 8:17:47 PM	72819
Xylenes, Total	ND	0.094		mg/Kg	1	1/31/2023 8:17:47 PM	72819
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	1/31/2023 8:17:47 PM	72819

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301868

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-10 4'

Project: Glass Kincaid OS 1

Collection Date: 1/20/2023 10:30:00 AM

Lab ID: 2301868-010

Matrix: SOIL

Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4800	150		mg/Kg	50	1/31/2023 3:27:06 PM	72884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	15	8.9		mg/Kg	1	1/27/2023 11:37:14 AM	72830
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/27/2023 11:37:14 AM	72830
Surr: DNOP	104	69-147		%Rec	1	1/27/2023 11:37:14 AM	72830
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 9:28:24 PM	72819
Surr: BFB	103	37.7-212		%Rec	1	1/31/2023 9:28:24 PM	72819
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/31/2023 9:28:24 PM	72819
Toluene	ND	0.049		mg/Kg	1	1/31/2023 9:28:24 PM	72819
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 9:28:24 PM	72819
Xylenes, Total	ND	0.099		mg/Kg	1	1/31/2023 9:28:24 PM	72819
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	1/31/2023 9:28:24 PM	72819

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301868

02-Feb-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: MB-72880	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72880	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404697			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72880	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72880	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404698			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Sample ID: MB-72884	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72884	RunNo: 94297								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405817			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72884	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72884	RunNo: 94297								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405818			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301868

02-Feb-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: MB-72830	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72830	RunNo: 94191								
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3402654 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	10		10.00		100	69	147			

Sample ID: LCS-72830	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72830	RunNo: 94191								
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3402655 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.9	61.9	130			
Surr: DNOP	4.5		5.000		90.4	69	147			

Sample ID: LCS-72824	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72824	RunNo: 94207								
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3403443 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	61.9	130			
Surr: DNOP	6.5		5.000		130	69	147			

Sample ID: MB-72824	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72824	RunNo: 94207								
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3403447 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	11		10.00		114	69	147			

Sample ID: LCS-72898	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72898	RunNo: 94303								
Prep Date: 1/30/2023	Analysis Date: 1/31/2023	SeqNo: 3406297 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
Surr: DNOP	6.1		5.000		121	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301868
02-Feb-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-72898	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72898	RunNo: 94303								
Prep Date: 1/30/2023	Analysis Date: 1/31/2023	SeqNo: 3406300	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	11		10.00		109	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301868

02-Feb-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: ics-72809	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72809			RunNo: 94272						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3405391		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	1100		1000		111	37.7	212			

Sample ID: mb-72809	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72809			RunNo: 94272						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3405393		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	37.7	212			

Sample ID: ics-72819	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72819			RunNo: 94318						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3406748		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	118	72.3	137			
Surr: BFB	1200		1000		116	37.7	212			

Sample ID: mb-72819	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72819			RunNo: 94318						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3406749		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301868

02-Feb-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-72809	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72809			RunNo: 94272						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3405429		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: mb-72809	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72809			RunNo: 94272						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3405431		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: LCS-72819	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72819			RunNo: 94318						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3406775		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: mb-72819	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72819			RunNo: 94318						
Prep Date: 1/25/2023	Analysis Date: 1/31/2023			SeqNo: 3406776		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2301868

RcptNo: 1

Received By: Joseph Alderette 1/24/2023 1:40:00 PM

Completed By: Desiree Dominguez 1/24/2023 2:20:07 PM

Reviewed By: KPA 1-24-23

Handwritten initials: JA

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JA 1-23-24*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

COC missing client info (on file) - DAD 1/24/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: EOG (Vertex)

Mailing Address:

Phone #:

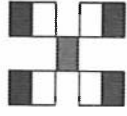
email or Fax#: MWier@Vertex.ca

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5-day
☒ Standard ☒ Rush
Project Name: Glass Knivaid OS#1Project #: 22E-00716-03Project Manager: Chance DixonSampler: M. Wier
On Ice: ☒ Yes ☐ No
of Coolers: 1Cooler Temp (including CF): 1.8-6.2 = 1.6 (°C)Container Type and # 40Z Preservative Type ice HEAL No. 2301868

Date	Time	Matrix	Sample Name	Depth	HEAL No.
1/20	9:00	Soil	BS23-01	4'	-001
1/20	9:10		BS23-02	4'	-002
1/20	9:20		BS23-03	4'	-003
	9:30		BS23-04	4'	-004
	9:40		BS23-05	4'	-005
	9:50		BS23-06	4'	-006
	10:00		BS23-07	4'	-007
	10:10		BS23-08	4'	-008
	10:20		BS23-09	4'	-009
	10:30		BS23-10	4'	-010

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
1/23/23	9:00	<u>AMMUN</u>	<u>AMMUN</u>	<u>cert</u>	1/23/23	9:15
Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
1/23/23	9:00	<u>AMMUN</u>	<u>AMMUN</u>	<u>cert</u>	1-24-23	13:40


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
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BTX:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
----------------------------	----------------------------	--------------------	--------------------------	---------------	---	------------	-----------------	---------------------------------

Remarks:

CC: Mktie Wier (mwier@vertex.ca)
+ Chance Dixon
Direct Bill EOG



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

January 31, 2023

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2301990

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/26/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301990

Date Reported: 1/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS23-37

Project: Glass Kincaid OS 1

Collection Date: 1/23/2023 1:30:00 PM

Lab ID: 2301990-001

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	1/28/2023 11:56:59 PM	72880
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/30/2023 9:26:36 PM	72866
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/30/2023 9:26:36 PM	72866
Surr: DNOP	99.1	69-147		%Rec	1	1/30/2023 9:26:36 PM	72866
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 5:34:00 PM	72862
Surr: BFB	114	37.7-212		%Rec	1	1/28/2023 5:34:00 PM	72862
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/29/2023 10:39:00 PM	72862
Toluene	ND	0.049		mg/Kg	1	1/29/2023 10:39:00 PM	72862
Ethylbenzene	ND	0.049		mg/Kg	1	1/29/2023 10:39:00 PM	72862
Xylenes, Total	ND	0.097		mg/Kg	1	1/29/2023 10:39:00 PM	72862
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/29/2023 10:39:00 PM	72862

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301990

31-Jan-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-72880		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 72880		RunNo: 94262						
Prep Date: 1/28/2023		Analysis Date: 1/28/2023		SeqNo: 3404697			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72880		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 72880		RunNo: 94262						
Prep Date: 1/28/2023		Analysis Date: 1/28/2023		SeqNo: 3404698			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 4

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301990

31-Jan-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: ics-72862	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72862		RunNo: 94254							
Prep Date: 1/27/2023	Analysis Date: 1/28/2023		SeqNo: 3404272		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	122	72.3	137			
Surr: BFB	1300		1000		127	37.7	212			

Sample ID: mb-72862	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72862		RunNo: 94254							
Prep Date: 1/27/2023	Analysis Date: 1/28/2023		SeqNo: 3404273		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 4

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301990

31-Jan-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: lcs-72862	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72862		RunNo: 94256							
Prep Date: 1/27/2023	Analysis Date: 1/29/2023		SeqNo: 3404479		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Sample ID: mb-72862	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72862		RunNo: 94256							
Prep Date: 1/27/2023	Analysis Date: 1/29/2023		SeqNo: 3404480		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		118	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2301990

RcptNo: 1

Received By: Tracy Casarrubias 1/26/2023 7:25:00 AM

Completed By: Tracy Casarrubias 1/26/2023 9:01:04 AM

Reviewed By: *W 1/26/23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPG 1-26-23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address, phone number and email missing on COC-TMC 1/26/23

W 1/26/23

16. Additional remarks:

TMC

NO Relinquish info from client on COC. W 1/26/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0	Good	Yes	<i>Vogi</i>		

W 1/26/23

Chain-of-Custody Record

Client: EOG (Vertex)Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Cooler Temp (including CF): 0.1 - 0.1 = 0.0 (°C)Date: 1/23/23 13:30 Matrix: Soil Sample Name: WS23-37

Container Type and #

Preservative Type

HEAL No.

402

ice

2301990

001

Turn-Around Time: 5 Day☒ Standard ☐ Rush

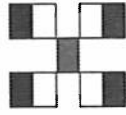
Project Name:

Glass Kincaid OS #1

Project #:

22E-00716-03

Project Manager:

C. DixonSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 1402HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO) ☒

8081 Pesticides/8082 PCB's ☐

EDB (Method 504.1) ☐

PAHs by 8310 or 8270SIMS ☐

RCRA 8 Metals ☐

Cl, F, Br, NO₃, NO₂, PO₄, SO₄ ☒

8260 (VOA) ☐

8270 (Semi-VOA) ☐

Total Coliform (Present/Absent) ☐

BTX:8015D(GRO / DRO / MRO) ☒

MTBE / TMB's (8021) ☒

Date: 1/23/23 13:30 Time: 13:30

Relinquished by:

Date

Time

Date: 1/23/23 13:30 Time: 13:30

Relinquished by:

Date

Time

Remarks:

CC: Chance Dixon & M^cKieffer WierDirect Bill EOG

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

February 13, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Glass Kincaid OS 1

OrderNo.: 2302004

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/1/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302004

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-65 0-4'

Project: Glass Kincaid OS 1

Collection Date: 1/30/2023 10:30:00 AM

Lab ID: 2302004-001

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	300	9.4		mg/Kg	1	2/8/2023 10:39:22 AM
Motor Oil Range Organics (MRO)	480	47		mg/Kg	1	2/8/2023 10:39:22 AM
Surr: DNOP	125	69-147		%Rec	1	2/8/2023 10:39:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/4/2023 5:00:00 AM
Surr: BFB	97.5	37.7-212		%Rec	1	2/4/2023 5:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/4/2023 5:00:00 AM
Toluene	ND	0.048		mg/Kg	1	2/4/2023 5:00:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/4/2023 5:00:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/4/2023 5:00:00 AM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	2/4/2023 5:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	170	60		mg/Kg	20	2/4/2023 10:31:40 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302004

13-Feb-23

Client: Vertex Resources Services, Inc.
Project: Glass Kincaid OS 1

Sample ID: MB-73001		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73001		RunNo: 94417						
Prep Date: 2/4/2023		Analysis Date: 2/4/2023		SeqNo: 3411144			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73001		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73001		RunNo: 94417						
Prep Date: 2/4/2023		Analysis Date: 2/4/2023		SeqNo: 3411145			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302004

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: LCS-72979	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72979			RunNo: 94392						
Prep Date: 2/2/2023	Analysis Date: 2/3/2023			SeqNo: 3411050		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: MB-72979	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72979			RunNo: 94392						
Prep Date: 2/2/2023	Analysis Date: 2/3/2023			SeqNo: 3411052		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	10		10.00		102	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302004

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: lcs-72971	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72971				RunNo: 94402					
Prep Date: 2/2/2023	Analysis Date: 2/3/2023				SeqNo: 3410291	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: mb-72971	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72971				RunNo: 94402					
Prep Date: 2/2/2023	Analysis Date: 2/3/2023				SeqNo: 3410292	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.6	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302004

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: lcs-72971	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 72971			RunNo: 94402						
Prep Date: 2/2/2023	Analysis Date: 2/3/2023			SeqNo: 3410344		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: mb-72971	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 72971			RunNo: 94402						
Prep Date: 2/2/2023	Analysis Date: 2/3/2023			SeqNo: 3410345		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Sample Log-In Check List

Client Name: **Vertex Resources
Services, Inc.**

Work Order Number: 2302004

RcptNo: 1

Received By: Cheyenne Cason 2/1/2023 8:00:00 AM

Completed By: Sean Livingston 2/1/2023 8:16:44 AM

Reviewed By: Se 2/1/23

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (<2)

Adjusted? /

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good	Not Present	YOGI		

Analytical Report

Lab Order 2302494

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-11 4'

Project: Glass Kincaid OS 1

Collection Date: 2/7/2023 10:30:00 AM

Lab ID: 2302494-001

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	910	60		mg/Kg	20	2/11/2023 9:41:43 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	57	9.2		mg/Kg	1	2/14/2023 1:56:37 PM	73130
Motor Oil Range Organics (MRO)	56	46		mg/Kg	1	2/14/2023 1:56:37 PM	73130
Surr: DNOP	99.7	69-147		%Rec	1	2/14/2023 1:56:37 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/14/2023 3:13:00 AM	73127
Surr: BFB	100	37.7-212		%Rec	1	2/14/2023 3:13:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/14/2023 3:13:00 AM	73127
Toluene	ND	0.048		mg/Kg	1	2/14/2023 3:13:00 AM	73127
Ethylbenzene	ND	0.048		mg/Kg	1	2/14/2023 3:13:00 AM	73127
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2023 3:13:00 AM	73127
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	2/14/2023 3:13:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302494

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-12 4'

Project: Glass Kincaid OS 1

Collection Date: 2/7/2023 10:45:00 AM

Lab ID: 2302494-002

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	59		mg/Kg	20	2/11/2023 9:54:08 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	2/14/2023 2:07:15 PM	73130
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/14/2023 2:07:15 PM	73130
Surr: DNOP	76.7	69-147		%Rec	1	2/14/2023 2:07:15 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2023 3:32:00 AM	73127
Surr: BFB	94.1	37.7-212		%Rec	1	2/14/2023 3:32:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/14/2023 3:32:00 AM	73127
Toluene	ND	0.049		mg/Kg	1	2/14/2023 3:32:00 AM	73127
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2023 3:32:00 AM	73127
Xylenes, Total	ND	0.099		mg/Kg	1	2/14/2023 3:32:00 AM	73127
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	2/14/2023 3:32:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302494

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-13 4'

Project: Glass Kincaid OS 1

Collection Date: 2/7/2023 11:00:00 AM

Lab ID: 2302494-003

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	2/11/2023 10:06:33 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	20	9.5		mg/Kg	1	2/14/2023 2:18:00 PM	73130
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2023 2:18:00 PM	73130
Surr: DNOP	74.8	69-147		%Rec	1	2/14/2023 2:18:00 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2023 3:52:00 AM	73127
Surr: BFB	96.0	37.7-212		%Rec	1	2/14/2023 3:52:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/14/2023 3:52:00 AM	73127
Toluene	ND	0.049		mg/Kg	1	2/14/2023 3:52:00 AM	73127
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2023 3:52:00 AM	73127
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2023 3:52:00 AM	73127
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/14/2023 3:52:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302494

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BS23-14 4'

Project: Glass Kincaid OS 1

Collection Date: 2/7/2023 11:15:00 AM

Lab ID: 2302494-004

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	2/11/2023 10:18:58 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	21	9.2		mg/Kg	1	2/14/2023 2:32:24 PM	73130
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/14/2023 2:32:24 PM	73130
Surr: DNOP	73.4	69-147		%Rec	1	2/14/2023 2:32:24 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/14/2023 4:12:00 AM	73127
Surr: BFB	90.6	37.7-212		%Rec	1	2/14/2023 4:12:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/14/2023 4:12:00 AM	73127
Toluene	ND	0.048		mg/Kg	1	2/14/2023 4:12:00 AM	73127
Ethylbenzene	ND	0.048		mg/Kg	1	2/14/2023 4:12:00 AM	73127
Xylenes, Total	ND	0.096		mg/Kg	1	2/14/2023 4:12:00 AM	73127
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	2/14/2023 4:12:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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

February 15, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Glass Kincaid OS 1

OrderNo.: 2302495

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/10/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302495

Date Reported: 2/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS23-92 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/8/2023 10:00:00 AM

Lab ID: 2302495-001

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	300	60		mg/Kg	20	2/11/2023 10:56:13 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/14/2023 2:43:18 PM	73130
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/14/2023 2:43:18 PM	73130
Surr: DNOP	78.9	69-147		%Rec	1	2/14/2023 2:43:18 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2023 4:31:00 AM	73127
Surr: BFB	101	37.7-212		%Rec	1	2/14/2023 4:31:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/14/2023 4:31:00 AM	73127
Toluene	ND	0.049		mg/Kg	1	2/14/2023 4:31:00 AM	73127
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2023 4:31:00 AM	73127
Xylenes, Total	ND	0.099		mg/Kg	1	2/14/2023 4:31:00 AM	73127
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	2/14/2023 4:31:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302495

Date Reported: 2/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS23-93 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/8/2023 10:10:00 AM

Lab ID: 2302495-002

Matrix: SOIL

Received Date: 2/10/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	2/11/2023 11:08:38 AM	73140
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/14/2023 2:54:10 PM	73130
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2023 2:54:10 PM	73130
Surr: DNOP	83.4	69-147		%Rec	1	2/14/2023 2:54:10 PM	73130
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2023 4:51:00 AM	73127
Surr: BFB	97.5	37.7-212		%Rec	1	2/14/2023 4:51:00 AM	73127
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/14/2023 4:51:00 AM	73127
Toluene	ND	0.049		mg/Kg	1	2/14/2023 4:51:00 AM	73127
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2023 4:51:00 AM	73127
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2023 4:51:00 AM	73127
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	2/14/2023 4:51:00 AM	73127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302495

15-Feb-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73140		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73140		RunNo: 94561						
Prep Date: 2/11/2023		Analysis Date: 2/11/2023		SeqNo: 3418153			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73140		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73140		RunNo: 94561						
Prep Date: 2/11/2023		Analysis Date: 2/11/2023		SeqNo: 3418154			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302495

15-Feb-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73130	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73130			RunNo: 94595						
Prep Date: 2/10/2023	Analysis Date: 2/14/2023			SeqNo: 3419498		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.9	61.9	130			
Surr: DNOP	4.4		5.000		88.6	69	147			

Sample ID: MB-73130	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73130			RunNo: 94595						
Prep Date: 2/10/2023	Analysis Date: 2/14/2023			SeqNo: 3419500		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	11		10.00		108	69	147			

Sample ID: LCS-73126	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73126			RunNo: 94595						
Prep Date: 2/10/2023	Analysis Date: 2/15/2023			SeqNo: 3420304		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.0	69	147			

Sample ID: MB-73126	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73126			RunNo: 94595						
Prep Date: 2/10/2023	Analysis Date: 2/15/2023			SeqNo: 3420309		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		79.9	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302495

15-Feb-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: lcs-73127	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 73127	RunNo: 94574								
Prep Date: 2/10/2023	Analysis Date: 2/13/2023	SeqNo: 3418792		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.5	72.3	137			
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: mb-73127	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73127	RunNo: 94574								
Prep Date: 2/10/2023	Analysis Date: 2/14/2023	SeqNo: 3418793		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.0	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302495

15-Feb-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: lcs-73131	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 73131				RunNo: 94574					
Prep Date: 2/10/2023	Analysis Date: 2/13/2023				SeqNo: 3418828	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	70	130			

Sample ID: mb-73131	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73131				RunNo: 94574					
Prep Date: 2/10/2023	Analysis Date: 2/13/2023				SeqNo: 3418829	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			

Sample ID: LCS-73127	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 73127				RunNo: 94574					
Prep Date: 2/10/2023	Analysis Date: 2/13/2023				SeqNo: 3418867	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.6	80	120			
Toluene	0.86	0.050	1.000	0	85.6	80	120			
Ethylbenzene	0.84	0.050	1.000	0	83.9	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.1	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	70	130			

Sample ID: mb-73127	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73127				RunNo: 94574					
Prep Date: 2/10/2023	Analysis Date: 2/14/2023				SeqNo: 3418868	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302495

RcptNo: 1

Received By: **Juan Rojas**

2/10/2023 7:10:00 AM

Henry G.

Completed By: **Tracy Casarrubias**

2/10/2023 7:53:23 AM

Reviewed By:  2-10-23

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (<2 Adjusted?)

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Yes	Morty		

Chain-of-Custody Record

Client: EOG (Vertex)Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 2-dayProject Name: Glass Kineaid

Project #:

OS#1
22E-00716-03

Project Manager:

C. DixonSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 0.4 to 2.0 (°C)

Container Type and #

402ice001ice002

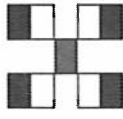
HEAL No.

2302495

Preservative Type

iceDate: 2/9/23 Time: 1900Relinquished by: Chance DixonDate: 2/9/23 Time: 1900Relinquished by: Chance DixonDate: 2/9/23 Time: 1900Relinquished by: Chance DixonDate: 2/9/23 Time: 1900Relinquished by: Chance DixonReceived by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900Received by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900Received by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900Received by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900Received by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900Received by: Chance DixonVia: Chance DixonDate: 2/9/23 Time: 1900

Remarks:

cc: McKitterick WierChance DixonDirect Bill EOGDirect Bill EOGDirect Bill EOGDirect Bill EOGDirect Bill EOGDirect Bill EOGHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
8270 (Semi-VOA)
8260 (VOA)
Total Coliform (Present/Absent)



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

February 22, 2023

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

RE: Glass Kincaid OS 1

OrderNo.: 2302646

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/15/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 20, 2023.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2302646

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-105 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/13/2023 9:45:00 AM

Lab ID: 2302646-001

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/16/2023 2:06:24 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/16/2023 2:06:24 PM
Surr: DNOP	90.7	69-147		%Rec	1	2/16/2023 2:06:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2023 5:41:30 PM
Surr: BFB	102	37.7-212		%Rec	1	2/16/2023 5:41:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/16/2023 5:41:30 PM
Toluene	ND	0.047		mg/Kg	1	2/16/2023 5:41:30 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2023 5:41:30 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/16/2023 5:41:30 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/16/2023 5:41:30 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	30		mg/Kg	20	2/15/2023 7:09:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302646

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-106 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/13/2023 9:50:00 AM

Lab ID: 2302646-002

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/16/2023 2:27:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2023 2:27:49 PM
Surr: DNOP	90.6	69-147		%Rec	1	2/16/2023 2:27:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2023 6:05:04 PM
Surr: BFB	103	37.7-212		%Rec	1	2/16/2023 6:05:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/16/2023 6:05:04 PM
Toluene	ND	0.047		mg/Kg	1	2/16/2023 6:05:04 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2023 6:05:04 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/16/2023 6:05:04 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/16/2023 6:05:04 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	520	60		mg/Kg	20	2/17/2023 11:16:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302646

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-107 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/13/2023 1:30:00 PM

Lab ID: 2302646-003

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/16/2023 2:38:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/16/2023 2:38:42 PM
Surr: DNOP	91.8	69-147		%Rec	1	2/16/2023 2:38:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 6:28:31 PM
Surr: BFB	104	37.7-212		%Rec	1	2/16/2023 6:28:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/16/2023 6:28:31 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 6:28:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 6:28:31 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/16/2023 6:28:31 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/16/2023 6:28:31 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	360	60		mg/Kg	20	2/17/2023 11:29:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302646

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-108 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/13/2023 1:35:00 PM

Lab ID: 2302646-004

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/16/2023 2:49:34 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/16/2023 2:49:34 PM
Surr: DNOP	91.5	69-147		%Rec	1	2/16/2023 2:49:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 6:52:18 PM
Surr: BFB	103	37.7-212		%Rec	1	2/16/2023 6:52:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 6:52:18 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 6:52:18 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 6:52:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/16/2023 6:52:18 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/16/2023 6:52:18 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	350	60		mg/Kg	20	2/17/2023 11:41:36 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 4 of 9

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302646

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: MB-73187	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73187		RunNo: 94619							
Prep Date: 2/15/2023	Analysis Date: 2/15/2023		SeqNo: 3421679		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73187	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73187		RunNo: 94619							
Prep Date: 2/15/2023	Analysis Date: 2/15/2023		SeqNo: 3421680		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: MB-73239	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73239		RunNo: 94696							
Prep Date: 2/17/2023	Analysis Date: 2/17/2023		SeqNo: 3423573		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73239	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73239		RunNo: 94696							
Prep Date: 2/17/2023	Analysis Date: 2/17/2023		SeqNo: 3423574		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302646

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: LCS-73213	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3421849		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.5	61.9	130			
Surr: DNOP	4.2		5.000		84.2	69	147			

Sample ID: MB-73213	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3421852		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.6	69	147			

Sample ID: 2302646-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: WS23-105 0-4'	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3422886		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.8	48.97	0	87.0	54.2	135			
Surr: DNOP	4.8		4.897		98.2	69	147			

Sample ID: 2302646-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: WS23-105 0-4'	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3422887		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.38	0	85.8	54.2	135	6.85	29.2	
Surr: DNOP	4.4		4.638		95.6	69	147	0	0	

Sample ID: LCS-73232	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73232			RunNo: 94691						
Prep Date: 2/17/2023	Analysis Date: 2/17/2023			SeqNo: 3423170		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.8	69	147			

Sample ID: MB-73232	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73232			RunNo: 94691						
Prep Date: 2/17/2023	Analysis Date: 2/17/2023			SeqNo: 3423171		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302646
22-Feb-23

Client: Vertex Resources Services, Inc.
Project: Glass Kincaid OS 1

Sample ID: MB-73232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73232	RunNo: 94691								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423171		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.3	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302646

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: ics-73206	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73206			RunNo: 94649						
Prep Date: 2/15/2023	Analysis Date: 2/16/2023			SeqNo: 3421834		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	106	72.3	137			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-73206	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73206			RunNo: 94649						
Prep Date: 2/15/2023	Analysis Date: 2/16/2023			SeqNo: 3421835		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302646

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Glass Kincaid OS 1

Sample ID: LCS-73206	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73206			RunNo: 94649						
Prep Date: 2/15/2023	Analysis Date: 2/16/2023			SeqNo: 3421839		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	95.7	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-73206	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73206			RunNo: 94649						
Prep Date: 2/15/2023	Analysis Date: 2/16/2023			SeqNo: 3421841		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2302646

RcptNo: 1

Received By: Tracy Casarrubias 2/15/2023 7:30:00 AM

Completed By: Tracy Casarrubias 2/15/2023 7:52:58 AM

Reviewed By: *Ja 2/15/23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Ja 2/15/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good	Yes	morty		

Released to Imaging: 8/15/2023 1:53:51 PM

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

March 03, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2302849

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/21/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-15 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:13:00 AM

Lab ID: 2302849-001

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	990	60		mg/Kg	20	2/22/2023 12:29:06 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2023 12:41:03 PM	73285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2023 12:41:03 PM	73285
Surr: DNOP	88.5	69-147		%Rec	1	2/22/2023 12:41:03 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 1:40:26 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Toluene	ND	0.050		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Ethylbenzene	ND	0.050		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Xylenes, Total	ND	0.099		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/23/2023 1:40:26 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-16 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:17:00 AM

Lab ID: 2302849-002

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	920	60		mg/Kg	20	2/22/2023 12:41:31 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/22/2023 1:12:56 PM	73285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2023 1:12:56 PM	73285
Surr: DNOP	75.6	69-147		%Rec	1	2/22/2023 1:12:56 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Surr: BFB	100	37.7-212		%Rec	1	2/23/2023 2:51:05 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Xylenes, Total	ND	0.098		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	2/23/2023 2:51:05 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-17 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:20:00 AM

Lab ID: 2302849-003

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	760	60		mg/Kg	20	2/22/2023 12:53:56 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/22/2023 1:23:36 PM	73285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2023 1:23:36 PM	73285
Surr: DNOP	78.7	69-147		%Rec	1	2/22/2023 1:23:36 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 4:02:02 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Xylenes, Total	ND	0.098		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	2/23/2023 4:02:02 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

CLIENT: EOG

Client Sample ID: BES23-18 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:23:00 AM

Lab ID: 2302849-004

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	680	60		mg/Kg	20	2/22/2023 1:06:21 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/22/2023 1:34:14 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 1:34:14 PM	73285
Surr: DNOP	72.0	69-147		%Rec	1	2/22/2023 1:34:14 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 4:25:49 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Toluene	ND	0.048		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Xylenes, Total	ND	0.095		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	2/23/2023 4:25:49 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-111 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 9:40:00 AM

Lab ID: 2302849-005

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	95	61		mg/Kg	20	2/22/2023 2:08:24 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/22/2023 1:44:51 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 1:44:51 PM	73285
Surr: DNOP	86.6	69-147		%Rec	1	2/22/2023 1:44:51 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Surr: BFB	97.9	37.7-212		%Rec	1	2/23/2023 4:49:14 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	2/23/2023 4:49:14 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

CLIENT: EOG

Client Sample ID: WES23-117 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 8:34:00 AM

Lab ID: 2302849-006

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	290	60		mg/Kg	20	2/22/2023 2:20:49 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/22/2023 1:55:27 PM	73285
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/22/2023 1:55:27 PM	73285
Surr: DNOP	73.5	69-147		%Rec	1	2/22/2023 1:55:27 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Surr: BFB	99.8	37.7-212		%Rec	1	2/23/2023 5:12:43 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	2/23/2023 5:12:43 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

CLIENT: EOG

Client Sample ID: WES23-120 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 9:53:00 AM

Lab ID: 2302849-007

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	2/22/2023 2:33:14 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/2/2023 3:59:18 PM	73285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 3:59:18 PM	73285
Surr: DNOP	81.5	69-147		%Rec	1	3/2/2023 3:59:18 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Surr: BFB	98.8	37.7-212		%Rec	1	2/23/2023 5:36:11 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/23/2023 5:36:11 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **2302849**Date Reported: **3/3/2023****CLIENT:** EOG**Client Sample ID:** WES23-122 0-4'**Project:** Glass Kincaid OS 1**Collection Date:** 2/17/2023 11:51:00 AM**Lab ID:** 2302849-008**Matrix:** SOIL**Received Date:** 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	410	60		mg/Kg	20	2/22/2023 2:45:39 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	23	8.9		mg/Kg	1	2/22/2023 2:16:38 PM	73285
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/22/2023 2:16:38 PM	73285
Surr: DNOP	75.7	69-147		%Rec	1	2/22/2023 2:16:38 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Surr: BFB	97.1	37.7-212		%Rec	1	2/23/2023 5:59:58 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Toluene	ND	0.048		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Xylenes, Total	ND	0.096		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/23/2023 5:59:58 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302849

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-124 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 1:44:00 PM

Lab ID: 2302849-009

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/22/2023 2:58:03 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/22/2023 2:48:18 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 2:48:18 PM	73285
Surr: DNOP	69.8	69-147		%Rec	1	2/22/2023 2:48:18 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Surr: BFB	97.0	37.7-212		%Rec	1	2/23/2023 6:23:26 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Xylenes, Total	ND	0.097		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	2/23/2023 6:23:26 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302849
03-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: MB-73315	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73315	RunNo: 94813								
Prep Date: 2/22/2023	Analysis Date: 2/22/2023	SeqNo: 3426772 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73315	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73315	RunNo: 94813								
Prep Date: 2/22/2023	Analysis Date: 2/22/2023	SeqNo: 3426773 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302849

03-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73285	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73285		RunNo: 94831							
Prep Date: 2/21/2023	Analysis Date: 2/22/2023		SeqNo: 3427389		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.1	61.9	130			
Surr: DNOP	4.3		5.000		85.3	69	147			

Sample ID: MB-73285	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73285		RunNo: 94831							
Prep Date: 2/21/2023	Analysis Date: 2/22/2023		SeqNo: 3427393		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.7	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 11 of 13

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302849

03-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: lcs-73276	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73276		RunNo: 94799							
Prep Date: 2/21/2023	Analysis Date: 2/23/2023		SeqNo: 3427151		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.8	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: mb-73276	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73276		RunNo: 94799							
Prep Date: 2/21/2023	Analysis Date: 2/23/2023		SeqNo: 3427152		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.2	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302849

03-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73276	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73276		RunNo: 94799							
Prep Date: 2/21/2023	Analysis Date: 2/23/2023		SeqNo: 3427180		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	70	130			

Sample ID: mb-73276	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73276		RunNo: 94799							
Prep Date: 2/21/2023	Analysis Date: 2/23/2023		SeqNo: 3427181		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302849

RcptNo: 1

Received By: Tracy Casarrubias 2/21/2023 7:20:00 AM

Completed By: Tracy Casarrubias 2/21/2023 8:13:47 AM

Reviewed By: *[Signature]* 2-21-23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *on 2/21/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Yes	Yogi		
2	5.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: EOG / VertexMailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
2/17/23	8:34	Spil	WES23-117 0-4'
	9:53		WES23-120 0-4'
	11:51		WES23-122 0-4'
	13:44		WES23-124 0-4'

Turn-Around Time:

☐ Standard☒ Rush 48 hr

Project Name:

Glass Kincaid OS#1

Project #:

22E-00716-03

Project Manager:

Chance Dixon

Sampler:

SM

On Ice:

☒ Yes☐ Noyes# of Coolers: 1Cooler Temp (including CF): 5.3-0.1-5.2 (°C)

Container Type and #

412 jar

Preservative Type

ice

HEAL No.

2302845006007008009

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Relinquished by:

Stephen McClaf

Date:

2/17/23

Time:

17:45

Relinquished by:

XXXXXXXXXX

Date:

2/17/23

Time:

19:00

Received by:

XXXXXXXXXX

Via:

Via: com

Date

2/17/23

Time

9:00

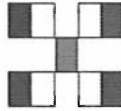
Date

2/17/23

Time

7:20

Remarks:

Direct bill to: EOGC.S. Smccarty@vertex.ca pg 1 of 1HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-15 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:13:00 AM

Lab ID: 2302849-001

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	990	60		mg/Kg	20	2/22/2023 12:29:06 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2023 12:41:03 PM	73285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2023 12:41:03 PM	73285
Surr: DNOP	88.5	69-147		%Rec	1	2/22/2023 12:41:03 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 1:40:26 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Toluene	ND	0.050		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Ethylbenzene	ND	0.050		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Xylenes, Total	ND	0.099		mg/Kg	1	2/23/2023 1:40:26 AM	73276
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/23/2023 1:40:26 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 0

Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-16 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:17:00 AM

Lab ID: 2302849-002

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	920	60		mg/Kg	20	2/22/2023 12:41:31 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/22/2023 1:12:56 PM	73285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2023 1:12:56 PM	73285
Surr: DNOP	75.6	69-147		%Rec	1	2/22/2023 1:12:56 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Surr: BFB	100	37.7-212		%Rec	1	2/23/2023 2:51:05 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Xylenes, Total	ND	0.098		mg/Kg	1	2/23/2023 2:51:05 AM	73276
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	2/23/2023 2:51:05 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-17 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:20:00 AM

Lab ID: 2302849-003

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	760	60		mg/Kg	20	2/22/2023 12:53:56 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/22/2023 1:23:36 PM	73285
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2023 1:23:36 PM	73285
Surr: DNOP	78.6	69-147		%Rec	1	2/22/2023 1:23:36 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 4:02:02 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Xylenes, Total	ND	0.098		mg/Kg	1	2/23/2023 4:02:02 AM	73276
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	2/23/2023 4:02:02 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-18 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 8:23:00 AM

Lab ID: 2302849-004

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	680	60		mg/Kg	20	2/22/2023 1:06:21 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/22/2023 1:34:14 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 1:34:14 PM	73285
Surr: DNOP	72.0	69-147		%Rec	1	2/22/2023 1:34:14 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Surr: BFB	101	37.7-212		%Rec	1	2/23/2023 4:25:49 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Toluene	ND	0.048		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Xylenes, Total	ND	0.095		mg/Kg	1	2/23/2023 4:25:49 AM	73276
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	2/23/2023 4:25:49 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-111 4'

Project: Glass Kincaid OS 1

Collection Date: 2/16/2023 9:40:00 AM

Lab ID: 2302849-005

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	95	61		mg/Kg	20	2/22/2023 2:08:24 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/22/2023 1:44:51 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 1:44:51 PM	73285
Surr: DNOP	86.6	69-147		%Rec	1	2/22/2023 1:44:51 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Surr: BFB	97.9	37.7-212		%Rec	1	2/23/2023 4:49:14 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 4:49:14 AM	73276
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	2/23/2023 4:49:14 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-117 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 8:34:00 AM

Lab ID: 2302849-006

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	290	60		mg/Kg	20	2/22/2023 2:20:49 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/22/2023 1:55:27 PM	73285
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/22/2023 1:55:27 PM	73285
Surr: DNOP	73.5	69-147		%Rec	1	2/22/2023 1:55:27 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Surr: BFB	99.8	37.7-212		%Rec	1	2/23/2023 5:12:43 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 5:12:43 AM	73276
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	2/23/2023 5:12:43 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-120 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 9:53:00 AM

Lab ID: 2302849-007

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	2/22/2023 2:33:14 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2023 2:06:01 PM	73285
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2023 2:06:01 PM	73285
Surr: DNOP	68.6	69-147	S	%Rec	1	2/22/2023 2:06:01 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Surr: BFB	98.8	37.7-212		%Rec	1	2/23/2023 5:36:11 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Toluene	ND	0.047		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Xylenes, Total	ND	0.094		mg/Kg	1	2/23/2023 5:36:11 AM	73276
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/23/2023 5:36:11 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-122 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 11:51:00 AM

Lab ID: 2302849-008

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	410	60		mg/Kg	20	2/22/2023 2:45:39 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	23	8.9		mg/Kg	1	2/22/2023 2:16:38 PM	73285
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/22/2023 2:16:38 PM	73285
Surr: DNOP	75.7	69-147		%Rec	1	2/22/2023 2:16:38 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Surr: BFB	97.1	37.7-212		%Rec	1	2/23/2023 5:59:58 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Toluene	ND	0.048		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Xylenes, Total	ND	0.096		mg/Kg	1	2/23/2023 5:59:58 AM	73276
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/23/2023 5:59:58 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302849

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-124 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/17/2023 1:44:00 PM

Lab ID: 2302849-009

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/22/2023 2:58:03 PM	73315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/22/2023 2:48:18 PM	73285
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2023 2:48:18 PM	73285
Surr: DNOP	69.8	69-147		%Rec	1	2/22/2023 2:48:18 PM	73285
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Surr: BFB	97.0	37.7-212		%Rec	1	2/23/2023 6:23:26 AM	73276
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Toluene	ND	0.049		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Xylenes, Total	ND	0.097		mg/Kg	1	2/23/2023 6:23:26 AM	73276
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	2/23/2023 6:23:26 AM	73276

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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

March 02, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2302934

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/22/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302934

Date Reported: 3/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-125 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/20/2023 9:09:00 AM

Lab ID: 2302934-001

Matrix: SOIL

Received Date: 2/22/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	560	60		mg/Kg	20	2/23/2023 11:20:21 PM	73360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/27/2023 10:36:00 PM	73337
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/27/2023 10:36:00 PM	73337
Surr: DNOP	92.6	69-147		%Rec	1	2/27/2023 10:36:00 PM	73337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2023 5:46:25 PM	73320
Surr: BFB	101	37.7-212		%Rec	1	2/25/2023 5:46:25 PM	73320
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/25/2023 5:46:25 PM	73320
Toluene	ND	0.049		mg/Kg	1	2/25/2023 5:46:25 PM	73320
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2023 5:46:25 PM	73320
Xylenes, Total	ND	0.097		mg/Kg	1	2/25/2023 5:46:25 PM	73320
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	2/25/2023 5:46:25 PM	73320

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302934

02-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73360		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73360		RunNo: 94857						
Prep Date: 2/23/2023		Analysis Date: 2/23/2023		SeqNo: 3428380			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73360		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73360		RunNo: 94857						
Prep Date: 2/23/2023		Analysis Date: 2/23/2023		SeqNo: 3428381			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302934

02-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73337	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73337			RunNo: 94894						
Prep Date: 2/23/2023	Analysis Date: 2/27/2023			SeqNo: 3430270		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.6	61.9	130			
Surr: DNOP	3.7		5.000		74.8	69	147			

Sample ID: LCS-73377	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73377			RunNo: 94894						
Prep Date: 2/24/2023	Analysis Date: 2/27/2023			SeqNo: 3430273		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		79.0	69	147			

Sample ID: MB-73337	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73337			RunNo: 94894						
Prep Date: 2/23/2023	Analysis Date: 2/27/2023			SeqNo: 3430276		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	69	147			

Sample ID: MB-73377	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73377			RunNo: 94894						
Prep Date: 2/24/2023	Analysis Date: 2/27/2023			SeqNo: 3430279		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		79.3	69	147			

Sample ID: LCS-73400	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73400			RunNo: 94924						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431562		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.1	69	147			

Sample ID: MB-73400	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73400			RunNo: 94924						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431563		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302934

02-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: ics-73320	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73320			RunNo: 94858						
Prep Date: 2/22/2023	Analysis Date: 2/25/2023			SeqNo: 3429445		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-73320	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73320			RunNo: 94858						
Prep Date: 2/22/2023	Analysis Date: 2/25/2023			SeqNo: 3429447		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.8	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302934

02-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73320	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73320			RunNo: 94858						
Prep Date: 2/22/2023	Analysis Date: 2/25/2023			SeqNo: 3429489		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: mb-73320	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73320			RunNo: 94858						
Prep Date: 2/22/2023	Analysis Date: 2/25/2023			SeqNo: 3429491		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302934

RcptNo: 1

Received By: Juan Rojas

2/22/2023 7:30:00 AM

[Signature]

Completed By: Tracy Casarrubias

2/22/2023 8:39:43 AM

Reviewed By:

[Signature] 2-22-23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *Jan 2/22/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes	Morty		

Chain-of-Custody Record

Client: EOG / Vertex

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard☒ Rush

48 hr

Project Name:

Glass Kincaid OS #1

Project #:

22E-00716-03

Project Manager:

Chance Dixon

Sampler: SM

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFI):

20-0-2.0 (°C)

Container Type and #

4 oz jar

Preservative Type

ice

HEAL No.

2302934

001

Date

Time

Matrix

Sample Name

WES28-125 0-4'

Date:

Time:

Relinquished by:

Received by:

Date

Remarks:

Date:

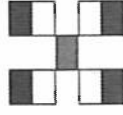
Time:

Relinquished by:

Received by:

Date

Remarks:

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)	✓
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	✓
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

BTEX / MTBE / TMB's (8021)

✓



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

March 06, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Glass Kincaid OS 1

OrderNo.: 2302A13

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/23/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-19 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:35:00 AM

Lab ID: 2302A13-001

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	230	60		mg/Kg	20	2/24/2023 7:59:11 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/27/2023 11:12:42 AM	73381
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/27/2023 11:12:42 AM	73381
Surr: DNOP	87.1	69-147		%Rec	1	2/27/2023 11:12:42 AM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2023 4:59:00 PM	73354
Surr: BFB	105	37.7-212		%Rec	1	2/27/2023 4:59:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/27/2023 4:59:00 PM	73354
Toluene	ND	0.048		mg/Kg	1	2/27/2023 4:59:00 PM	73354
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2023 4:59:00 PM	73354
Xylenes, Total	ND	0.096		mg/Kg	1	2/27/2023 4:59:00 PM	73354
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	2/27/2023 4:59:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 13

Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-20 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:38:00 AM

Lab ID: 2302A13-002

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	160	60		mg/Kg	20	2/24/2023 8:12:02 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/27/2023 11:23:16 AM	73381
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/27/2023 11:23:16 AM	73381
Surr: DNOP	87.7	69-147		%Rec	1	2/27/2023 11:23:16 AM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/27/2023 5:19:00 PM	73354
Surr: BFB	101	37.7-212		%Rec	1	2/27/2023 5:19:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/27/2023 5:19:00 PM	73354
Toluene	ND	0.050		mg/Kg	1	2/27/2023 5:19:00 PM	73354
Ethylbenzene	ND	0.050		mg/Kg	1	2/27/2023 5:19:00 PM	73354
Xylenes, Total	ND	0.099		mg/Kg	1	2/27/2023 5:19:00 PM	73354
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	2/27/2023 5:19:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-21 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:45:00 AM

Lab ID: 2302A13-003

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	68	59		mg/Kg	20	2/24/2023 8:24:55 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/27/2023 11:33:48 AM	73381
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/27/2023 11:33:48 AM	73381
Surr: DNOP	83.2	69-147		%Rec	1	2/27/2023 11:33:48 AM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2023 5:39:00 PM	73354
Surr: BFB	103	37.7-212		%Rec	1	2/27/2023 5:39:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/27/2023 5:39:00 PM	73354
Toluene	ND	0.048		mg/Kg	1	2/27/2023 5:39:00 PM	73354
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2023 5:39:00 PM	73354
Xylenes, Total	ND	0.096		mg/Kg	1	2/27/2023 5:39:00 PM	73354
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	2/27/2023 5:39:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-22 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:47:00 AM

Lab ID: 2302A13-004

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	2/24/2023 8:37:46 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	2/27/2023 11:44:22 AM	73381
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/27/2023 11:44:22 AM	73381
Surr: DNOP	81.2	69-147		%Rec	1	2/27/2023 11:44:22 AM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/27/2023 5:58:00 PM	73354
Surr: BFB	98.2	37.7-212		%Rec	1	2/27/2023 5:58:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/27/2023 5:58:00 PM	73354
Toluene	ND	0.050		mg/Kg	1	2/27/2023 5:58:00 PM	73354
Ethylbenzene	ND	0.050		mg/Kg	1	2/27/2023 5:58:00 PM	73354
Xylenes, Total	ND	0.099		mg/Kg	1	2/27/2023 5:58:00 PM	73354
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	2/27/2023 5:58:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-23 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:49:00 AM

Lab ID: 2302A13-005

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	240	59		mg/Kg	20	2/24/2023 8:50:38 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/2/2023 5:58:13 PM	73381
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/2/2023 5:58:13 PM	73381
Surr: DNOP	77.8	69-147		%Rec	1	3/2/2023 5:58:13 PM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2023 6:18:00 PM	73354
Surr: BFB	104	37.7-212		%Rec	1	2/27/2023 6:18:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/27/2023 6:18:00 PM	73354
Toluene	ND	0.048		mg/Kg	1	2/27/2023 6:18:00 PM	73354
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2023 6:18:00 PM	73354
Xylenes, Total	ND	0.096		mg/Kg	1	2/27/2023 6:18:00 PM	73354
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/27/2023 6:18:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-24 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:54:00 AM

Lab ID: 2302A13-006

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	850	60		mg/Kg	20	2/24/2023 9:54:57 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/27/2023 12:05:29 PM	73381
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/27/2023 12:05:29 PM	73381
Surr: DNOP	79.7	69-147		%Rec	1	2/27/2023 12:05:29 PM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2023 6:38:00 PM	73354
Surr: BFB	96.7	37.7-212		%Rec	1	2/27/2023 6:38:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/27/2023 6:38:00 PM	73354
Toluene	ND	0.049		mg/Kg	1	2/27/2023 6:38:00 PM	73354
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2023 6:38:00 PM	73354
Xylenes, Total	ND	0.098		mg/Kg	1	2/27/2023 6:38:00 PM	73354
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	2/27/2023 6:38:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-25 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 8:55:00 AM

Lab ID: 2302A13-007

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/24/2023 10:07:49 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/27/2023 12:16:06 PM	73381
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2023 12:16:06 PM	73381
Surr: DNOP	76.3	69-147		%Rec	1	2/27/2023 12:16:06 PM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2023 6:57:00 PM	73354
Surr: BFB	102	37.7-212		%Rec	1	2/27/2023 6:57:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/27/2023 6:57:00 PM	73354
Toluene	ND	0.049		mg/Kg	1	2/27/2023 6:57:00 PM	73354
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2023 6:57:00 PM	73354
Xylenes, Total	ND	0.099		mg/Kg	1	2/27/2023 6:57:00 PM	73354
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	2/27/2023 6:57:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-26 4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 9:00:00 AM

Lab ID: 2302A13-008

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	940	60		mg/Kg	20	2/24/2023 10:20:40 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/27/2023 12:26:42 PM	73381
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2023 12:26:42 PM	73381
Surr: DNOP	77.1	69-147		%Rec	1	2/27/2023 12:26:42 PM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2023 7:17:00 PM	73354
Surr: BFB	100	37.7-212		%Rec	1	2/27/2023 7:17:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/27/2023 7:17:00 PM	73354
Toluene	ND	0.049		mg/Kg	1	2/27/2023 7:17:00 PM	73354
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2023 7:17:00 PM	73354
Xylenes, Total	ND	0.097		mg/Kg	1	2/27/2023 7:17:00 PM	73354
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	2/27/2023 7:17:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A13

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-130 0-4'

Project: Glass Kincaid OS 1

Collection Date: 2/21/2023 12:09:00 PM

Lab ID: 2302A13-009

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	2/24/2023 10:33:31 PM	73382
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/27/2023 12:37:18 PM	73381
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/27/2023 12:37:18 PM	73381
Surr: DNOP	87.9	69-147		%Rec	1	2/27/2023 12:37:18 PM	73381
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2023 7:36:00 PM	73354
Surr: BFB	104	37.7-212		%Rec	1	2/27/2023 7:36:00 PM	73354
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/27/2023 7:36:00 PM	73354
Toluene	ND	0.049		mg/Kg	1	2/27/2023 7:36:00 PM	73354
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2023 7:36:00 PM	73354
Xylenes, Total	ND	0.098		mg/Kg	1	2/27/2023 7:36:00 PM	73354
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	2/27/2023 7:36:00 PM	73354

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A13
06-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: MB-73382	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 73382	RunNo: 94864
Prep Date: 2/24/2023	Analysis Date: 2/24/2023	SeqNo: 3429281 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-73382	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 73382	RunNo: 94864
Prep Date: 2/24/2023	Analysis Date: 2/24/2023	SeqNo: 3429282 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.3 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A13

06-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73381	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73381			RunNo: 94894						
Prep Date: 2/24/2023	Analysis Date: 2/27/2023			SeqNo: 3430275		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.7	61.9	130			
Surr: DNOP	4.7		5.000		93.1	69	147			

Sample ID: MB-73381	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73381			RunNo: 94894						
Prep Date: 2/24/2023	Analysis Date: 2/27/2023			SeqNo: 3430281		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	69	147			

Sample ID: MB-73474	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73474			RunNo: 94965						
Prep Date: 3/2/2023	Analysis Date: 3/2/2023			SeqNo: 3434009		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	69	147			

Sample ID: LCS-73474	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73474			RunNo: 94965						
Prep Date: 3/2/2023	Analysis Date: 3/2/2023			SeqNo: 3434010		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: MB-73456	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73456			RunNo: 94965						
Prep Date: 3/1/2023	Analysis Date: 3/2/2023			SeqNo: 3434451		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	69	147			

Sample ID: LCS-73456	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73456			RunNo: 94965						
Prep Date: 3/1/2023	Analysis Date: 3/2/2023			SeqNo: 3434452		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A13

06-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: lcs-73354	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73354			RunNo: 94903						
Prep Date: 2/23/2023	Analysis Date: 2/27/2023			SeqNo: 3430672		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb-73354	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73354			RunNo: 94903						
Prep Date: 2/23/2023	Analysis Date: 2/27/2023			SeqNo: 3430673		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A13

06-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: lcs-73354	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 73354	RunNo: 94903								
Prep Date: 2/23/2023	Analysis Date: 2/27/2023	SeqNo: 3430697	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	95.8	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: mb-73354	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73354	RunNo: 94903								
Prep Date: 2/23/2023	Analysis Date: 2/27/2023	SeqNo: 3430698	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302A13

RcptNo: 1

Received By: Tracy Casarrubias 2/23/2023 7:30:00 AM

Completed By: Tracy Casarrubias 2/23/2023 8:23:59 AM

Reviewed By: *WPC 2.23.23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by: *WPC 2/23/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes	Morty		



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

March 07, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid

OrderNo.: 2302B03

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/25/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-27 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 9:56:00 AM

Lab ID: 2302B03-001

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	710	59		mg/Kg	20	2/27/2023 8:51:43 PM	73405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/3/2023 10:33:24 AM	73489
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/3/2023 10:33:24 AM	73489
Surr: DNOP	73.4	69-147		%Rec	1	3/3/2023 10:33:24 AM	73489
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/1/2023 9:43:53 PM	73396
Surr: BFB	103	37.7-212		%Rec	1	3/1/2023 9:43:53 PM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/1/2023 9:43:53 PM	73396
Toluene	ND	0.048		mg/Kg	1	3/1/2023 9:43:53 PM	73396
Ethylbenzene	ND	0.048		mg/Kg	1	3/1/2023 9:43:53 PM	73396
Xylenes, Total	ND	0.096		mg/Kg	1	3/1/2023 9:43:53 PM	73396
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/1/2023 9:43:53 PM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-28 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 10:04:00 AM

Lab ID: 2302B03-002

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	400	60		mg/Kg	20	2/27/2023 9:04:07 PM	73405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/1/2023 6:40:02 PM	73400
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/1/2023 6:40:02 PM	73400
Surr: DNOP	86.4	69-147		%Rec	1	3/1/2023 6:40:02 PM	73400
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/1/2023 10:54:42 PM	73396
Surr: BFB	101	37.7-212		%Rec	1	3/1/2023 10:54:42 PM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/1/2023 10:54:42 PM	73396
Toluene	ND	0.048		mg/Kg	1	3/1/2023 10:54:42 PM	73396
Ethylbenzene	ND	0.048		mg/Kg	1	3/1/2023 10:54:42 PM	73396
Xylenes, Total	ND	0.096		mg/Kg	1	3/1/2023 10:54:42 PM	73396
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	3/1/2023 10:54:42 PM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-29 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 10:08:00 AM

Lab ID: 2302B03-003

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	330	60		mg/Kg	20	2/27/2023 9:16:31 PM	73405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/1/2023 6:53:29 PM	73400
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/1/2023 6:53:29 PM	73400
Surr: DNOP	74.4	69-147		%Rec	1	3/1/2023 6:53:29 PM	73400
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/2/2023 12:05:19 AM	73396
Surr: BFB	104	37.7-212		%Rec	1	3/2/2023 12:05:19 AM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/2/2023 12:05:19 AM	73396
Toluene	ND	0.050		mg/Kg	1	3/2/2023 12:05:19 AM	73396
Ethylbenzene	ND	0.050		mg/Kg	1	3/2/2023 12:05:19 AM	73396
Xylenes, Total	ND	0.099		mg/Kg	1	3/2/2023 12:05:19 AM	73396
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	3/2/2023 12:05:19 AM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-30 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 11:29:00 AM

Lab ID: 2302B03-004

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1100	60		mg/Kg	20	2/27/2023 9:53:46 PM	73405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/1/2023 7:07:00 PM	73400
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/1/2023 7:07:00 PM	73400
Surr: DNOP	95.0	69-147		%Rec	1	3/1/2023 7:07:00 PM	73400
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 12:28:52 AM	73396
Surr: BFB	102	37.7-212		%Rec	1	3/2/2023 12:28:52 AM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/2/2023 12:28:52 AM	73396
Toluene	ND	0.048		mg/Kg	1	3/2/2023 12:28:52 AM	73396
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 12:28:52 AM	73396
Xylenes, Total	ND	0.096		mg/Kg	1	3/2/2023 12:28:52 AM	73396
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	3/2/2023 12:28:52 AM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-31 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 11:32:00 AM

Lab ID: 2302B03-005

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	780	60		mg/Kg	20	2/28/2023 5:37:19 PM	73423
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/1/2023 1:48:48 PM	73421
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/1/2023 1:48:48 PM	73421
Surr: DNOP	92.4	69-147		%Rec	1	3/1/2023 1:48:48 PM	73421
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/2/2023 12:52:34 AM	73396
Surr: BFB	99.5	37.7-212		%Rec	1	3/2/2023 12:52:34 AM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/2/2023 12:52:34 AM	73396
Toluene	ND	0.046		mg/Kg	1	3/2/2023 12:52:34 AM	73396
Ethylbenzene	ND	0.046		mg/Kg	1	3/2/2023 12:52:34 AM	73396
Xylenes, Total	ND	0.093		mg/Kg	1	3/2/2023 12:52:34 AM	73396
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	3/2/2023 12:52:34 AM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-32 4'

Project: Glass Kincaid

Collection Date: 2/23/2023 11:36:00 AM

Lab ID: 2302B03-006

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	790	60		mg/Kg	20	2/28/2023 6:14:32 PM	73423
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/1/2023 1:59:25 PM	73421
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/1/2023 1:59:25 PM	73421
Surr: DNOP	70.9	69-147		%Rec	1	3/1/2023 1:59:25 PM	73421
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 1:16:01 AM	73396
Surr: BFB	101	37.7-212		%Rec	1	3/2/2023 1:16:01 AM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/2/2023 1:16:01 AM	73396
Toluene	ND	0.048		mg/Kg	1	3/2/2023 1:16:01 AM	73396
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 1:16:01 AM	73396
Xylenes, Total	ND	0.097		mg/Kg	1	3/2/2023 1:16:01 AM	73396
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/2/2023 1:16:01 AM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B03

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-140 0-4'

Project: Glass Kincaid

Collection Date: 2/23/2023 2:40:00 PM

Lab ID: 2302B03-007

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	390	60		mg/Kg	20	2/28/2023 6:51:45 PM	73423
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/1/2023 2:10:02 PM	73421
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/1/2023 2:10:02 PM	73421
Surr: DNOP	69.2	69-147		%Rec	1	3/1/2023 2:10:02 PM	73421
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2023 1:39:33 AM	73396
Surr: BFB	103	37.7-212		%Rec	1	3/2/2023 1:39:33 AM	73396
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/2/2023 1:39:33 AM	73396
Toluene	ND	0.049		mg/Kg	1	3/2/2023 1:39:33 AM	73396
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2023 1:39:33 AM	73396
Xylenes, Total	ND	0.098		mg/Kg	1	3/2/2023 1:39:33 AM	73396
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	3/2/2023 1:39:33 AM	73396

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2302B03****07-Mar-23**

Client: EOG
Project: Glass Kincaid

Sample ID: MB-73405	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73405		RunNo: 94908							
Prep Date: 2/27/2023	Analysis Date: 2/27/2023		SeqNo: 3431077		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73405	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73405		RunNo: 94908							
Prep Date: 2/27/2023	Analysis Date: 2/27/2023		SeqNo: 3431078		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: MB-73423	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73423		RunNo: 94937							
Prep Date: 2/28/2023	Analysis Date: 2/28/2023		SeqNo: 3432208		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73423	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73423		RunNo: 94937							
Prep Date: 2/28/2023	Analysis Date: 2/28/2023		SeqNo: 3432210		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B03

07-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: LCS-73400	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73400			RunNo: 94924						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431562		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	61.9	130			
Surr: DNOP	4.3		5.000		86.1	69	147			

Sample ID: MB-73400	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73400			RunNo: 94924						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431563		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.2	69	147			

Sample ID: LCS-73421	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73421			RunNo: 94952						
Prep Date: 2/28/2023	Analysis Date: 3/1/2023			SeqNo: 3432996		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.2	61.9	130			
Surr: DNOP	4.5		5.000		90.0	69	147			

Sample ID: MB-73421	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73421			RunNo: 94952						
Prep Date: 2/28/2023	Analysis Date: 3/1/2023			SeqNo: 3432998		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	10		10.00		104	69	147			

Sample ID: MB-73474	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73474			RunNo: 94965						
Prep Date: 3/2/2023	Analysis Date: 3/2/2023			SeqNo: 3434009		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B03

07-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: LCS-73474	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73474		RunNo: 94965							
Prep Date: 3/2/2023	Analysis Date: 3/2/2023		SeqNo: 3434010		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: MB-73456	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73456		RunNo: 94965							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434451		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	69	147			

Sample ID: LCS-73456	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73456		RunNo: 94965							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434452		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	69	147			

Sample ID: LCS-73489	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73489		RunNo: 95019							
Prep Date: 3/2/2023	Analysis Date: 3/3/2023		SeqNo: 3435789		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	126	61.9	130			
Surr: DNOP	6.6		5.000		132	69	147			

Sample ID: MB-73489	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73489		RunNo: 95019							
Prep Date: 3/2/2023	Analysis Date: 3/3/2023		SeqNo: 3435792		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B03

07-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: lcs-73396	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73396		RunNo: 94933							
Prep Date: 2/27/2023	Analysis Date: 3/1/2023		SeqNo: 3433434		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.8	72.3	137			
Surr: BFB	1900		1000		193	37.7	212			

Sample ID: mb-73396	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73396		RunNo: 94933							
Prep Date: 2/27/2023	Analysis Date: 3/1/2023		SeqNo: 3433435		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433961		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433962		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B03

07-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: LCS-73396	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73396		RunNo: 94933							
Prep Date: 2/27/2023	Analysis Date: 3/1/2023		SeqNo: 3433469		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.5	80	120			
Toluene	0.87	0.050	1.000	0	87.0	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.2	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	70	130			

Sample ID: mb-73396	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73396		RunNo: 94933							
Prep Date: 2/27/2023	Analysis Date: 3/1/2023		SeqNo: 3433470		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: R94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433969		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433970		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302B03

RcptNo: 1

Received By: Tracy Casarrubias 2/25/2023 9:00:00 AM

Completed By: Tracy Casarrubias 2/25/2023 9:40:52 AM

Reviewed By: DAD 2/27/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: TML 2/25/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: EOG/VertexMailing Address: on filePhone #:
email or Fax#: QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 48 hr

Project Name:

Glass Kincaid

Project #:

22E-00716-03

Project Manager:

Chance DixonSampler: SMOn Ice: ☒ Yes ☐ No 40g# of Coolers: 1Cooler Temp (including CF): 2.1 - 2.1 (°C)

Container Type and #

Preservative Type

HEAL No.

2302B03

402 jar ice 001

002

003

004

005

006

007

WES 23-140 0-4'

WES 23-27 4'

WES 23-28 4'

WES 23-29 4'

WES 23-30 4'

WES 23-31 4'

WES 23-32 4'

WES 23-140 0-4'

WES 23-140 0-4'

WES 23-140 0-4'

WES 23-140 0-4'

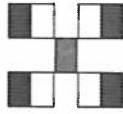
WES 23-140 0-4'

WES 23-140 0-4'

WES 23-140 0-4'

WES 23-140 0-4'

WES 23-140 0-4'

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

Bill directly to: EOG

C.C. Smccarty@vertex.ca pg 1 of 1

Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00Received by: Date: 2/25/23 Time: 9:00



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

March 07, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2302B47

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/28/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-33 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 10:15:00 AM

Lab ID: 2302B47-001

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	3/1/2023 4:44:36 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/1/2023 6:26:18 PM	73436
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2023 6:26:18 PM	73436
Surr: DNOP	98.0	69-147		%Rec	1	3/1/2023 6:26:18 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2023 8:53:09 PM	73430
Surr: BFB	101	37.7-212		%Rec	1	3/2/2023 8:53:09 PM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/2/2023 8:53:00 PM	73430
Toluene	ND	0.049		mg/Kg	1	3/2/2023 8:53:00 PM	73430
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2023 8:53:00 PM	73430
Xylenes, Total	ND	0.098		mg/Kg	1	3/2/2023 8:53:00 PM	73430
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/2/2023 8:53:00 PM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-34 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 10:18:00 AM

Lab ID: 2302B47-002

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	3/1/2023 5:21:49 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/1/2023 8:53:06 PM	73436
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2023 8:53:06 PM	73436
Surr: DNOP	87.9	69-147		%Rec	1	3/1/2023 8:53:06 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2023 10:03:00 PM	73430
Surr: BFB	103	37.7-212		%Rec	1	3/2/2023 10:03:00 PM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/2/2023 10:03:47 PM	73430
Toluene	ND	0.049		mg/Kg	1	3/2/2023 10:03:47 PM	73430
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2023 10:03:47 PM	73430
Xylenes, Total	ND	0.099		mg/Kg	1	3/2/2023 10:03:47 PM	73430
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/2/2023 10:03:47 PM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-35 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 10:22:00 AM

Lab ID: 2302B47-003

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	3/1/2023 5:34:14 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	3/1/2023 9:36:09 PM	73436
Motor Oil Range Organics (MRO)	590	500		mg/Kg	10	3/1/2023 9:36:09 PM	73436
Surr: DNOP	0	69-147	S	%Rec	10	3/1/2023 9:36:09 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2023 11:14:30 PM	73430
Surr: BFB	99.2	37.7-212		%Rec	1	3/2/2023 11:14:30 PM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/2/2023 11:14:30 PM	73430
Toluene	ND	0.049		mg/Kg	1	3/2/2023 11:14:30 PM	73430
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2023 11:14:30 PM	73430
Xylenes, Total	ND	0.098		mg/Kg	1	3/2/2023 11:14:30 PM	73430
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	3/2/2023 11:14:30 PM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-36 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 10:36:00 AM

Lab ID: 2302B47-004

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	730	60		mg/Kg	20	3/1/2023 5:46:39 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	340	9.7		mg/Kg	1	3/1/2023 9:57:33 PM	73436
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	3/1/2023 9:57:33 PM	73436
Surr: DNOP	94.3	69-147		%Rec	1	3/1/2023 9:57:33 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/2/2023 11:38:01 PM	73430
Surr: BFB	99.0	37.7-212		%Rec	1	3/2/2023 11:38:01 PM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/2/2023 11:38:01 PM	73430
Toluene	ND	0.046		mg/Kg	1	3/2/2023 11:38:01 PM	73430
Ethylbenzene	ND	0.046		mg/Kg	1	3/2/2023 11:38:01 PM	73430
Xylenes, Total	ND	0.091		mg/Kg	1	3/2/2023 11:38:01 PM	73430
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	3/2/2023 11:38:01 PM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-37 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 11:47:00 AM

Lab ID: 2302B47-005

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	3/1/2023 6:23:52 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	18	9.5		mg/Kg	1	3/1/2023 10:18:53 PM	73436
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/1/2023 10:18:53 PM	73436
Surr: DNOP	70.9	69-147		%Rec	1	3/1/2023 10:18:53 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/3/2023 12:01:29 AM	73430
Surr: BFB	100	37.7-212		%Rec	1	3/3/2023 12:01:29 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/3/2023 12:01:29 AM	73430
Toluene	ND	0.048		mg/Kg	1	3/3/2023 12:01:29 AM	73430
Ethylbenzene	ND	0.048		mg/Kg	1	3/3/2023 12:01:29 AM	73430
Xylenes, Total	ND	0.095		mg/Kg	1	3/3/2023 12:01:29 AM	73430
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	3/3/2023 12:01:29 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-38 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 11:58:00 AM

Lab ID: 2302B47-006

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2200	61		mg/Kg	20	3/1/2023 6:36:17 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	230	9.2		mg/Kg	1	3/1/2023 10:29:39 PM	73436
Motor Oil Range Organics (MRO)	250	46		mg/Kg	1	3/1/2023 10:29:39 PM	73436
Surr: DNOP	95.5	69-147		%Rec	1	3/1/2023 10:29:39 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/3/2023 12:25:00 AM	73430
Surr: BFB	100	37.7-212		%Rec	1	3/3/2023 12:25:00 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/3/2023 12:25:00 AM	73430
Toluene	ND	0.046		mg/Kg	1	3/3/2023 12:25:00 AM	73430
Ethylbenzene	ND	0.046		mg/Kg	1	3/3/2023 12:25:00 AM	73430
Xylenes, Total	ND	0.092		mg/Kg	1	3/3/2023 12:25:00 AM	73430
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	3/3/2023 12:25:00 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-39 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:04:00 PM

Lab ID: 2302B47-007

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1700	60		mg/Kg	20	3/1/2023 6:48:42 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	22	9.0		mg/Kg	1	3/1/2023 10:51:01 PM	73436
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/1/2023 10:51:01 PM	73436
Surr: DNOP	89.3	69-147		%Rec	1	3/1/2023 10:51:01 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/3/2023 12:48:29 AM	73430
Surr: BFB	101	37.7-212		%Rec	1	3/3/2023 12:48:29 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/3/2023 12:48:29 AM	73430
Toluene	ND	0.047		mg/Kg	1	3/3/2023 12:48:29 AM	73430
Ethylbenzene	ND	0.047		mg/Kg	1	3/3/2023 12:48:29 AM	73430
Xylenes, Total	ND	0.094		mg/Kg	1	3/3/2023 12:48:29 AM	73430
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	3/3/2023 12:48:29 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-40 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:07:00 PM

Lab ID: 2302B47-008

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	3/1/2023 7:01:07 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/3/2023 11:37:03 AM	73494
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/3/2023 11:37:03 AM	73494
Surr: DNOP	103	69-147		%Rec	1	3/3/2023 11:37:03 AM	73494
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/3/2023 1:11:56 AM	73430
Surr: BFB	102	37.7-212		%Rec	1	3/3/2023 1:11:56 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/3/2023 1:11:56 AM	73430
Toluene	ND	0.047		mg/Kg	1	3/3/2023 1:11:56 AM	73430
Ethylbenzene	ND	0.047		mg/Kg	1	3/3/2023 1:11:56 AM	73430
Xylenes, Total	ND	0.095		mg/Kg	1	3/3/2023 1:11:56 AM	73430
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	3/3/2023 1:11:56 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-41 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:13:00 PM

Lab ID: 2302B47-009

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	3/1/2023 7:13:32 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/1/2023 11:12:27 PM	73436
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/1/2023 11:12:27 PM	73436
Surr: DNOP	70.9	69-147		%Rec	1	3/1/2023 11:12:27 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/3/2023 1:35:23 AM	73430
Surr: BFB	103	37.7-212		%Rec	1	3/3/2023 1:35:23 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/3/2023 1:35:23 AM	73430
Toluene	ND	0.048		mg/Kg	1	3/3/2023 1:35:23 AM	73430
Ethylbenzene	ND	0.048		mg/Kg	1	3/3/2023 1:35:23 AM	73430
Xylenes, Total	ND	0.096		mg/Kg	1	3/3/2023 1:35:23 AM	73430
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	3/3/2023 1:35:23 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-42 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:19:00 PM

Lab ID: 2302B47-010

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	61		mg/Kg	20	3/1/2023 7:25:56 PM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	29	9.1		mg/Kg	1	3/3/2023 11:47:53 AM	73494
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/3/2023 11:47:53 AM	73494
Surr: DNOP	90.9	69-147		%Rec	1	3/3/2023 11:47:53 AM	73494
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/3/2023 1:58:00 AM	73430
Surr: BFB	101	37.7-212		%Rec	1	3/3/2023 1:58:00 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/3/2023 1:58:49 AM	73430
Toluene	ND	0.048		mg/Kg	1	3/3/2023 1:58:49 AM	73430
Ethylbenzene	ND	0.048		mg/Kg	1	3/3/2023 1:58:49 AM	73430
Xylenes, Total	ND	0.096		mg/Kg	1	3/3/2023 1:58:49 AM	73430
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	3/3/2023 1:58:49 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-43 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:21:00 PM

Lab ID: 2302B47-011

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2900	150		mg/Kg	50	3/2/2023 10:46:47 AM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	33	9.5		mg/Kg	1	3/3/2023 11:58:43 AM	73494
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/3/2023 11:58:43 AM	73494
Surr: DNOP	99.2	69-147		%Rec	1	3/3/2023 11:58:43 AM	73494
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/3/2023 2:45:50 AM	73430
Surr: BFB	98.5	37.7-212		%Rec	1	3/3/2023 2:45:50 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/3/2023 2:45:50 AM	73430
Toluene	ND	0.050		mg/Kg	1	3/3/2023 2:45:50 AM	73430
Ethylbenzene	ND	0.050		mg/Kg	1	3/3/2023 2:45:50 AM	73430
Xylenes, Total	ND	0.099		mg/Kg	1	3/3/2023 2:45:50 AM	73430
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/3/2023 2:45:50 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302B47

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-44 4'

Project: Glass Kincaid OS 1

Collection Date: 2/24/2023 12:29:00 PM

Lab ID: 2302B47-012

Matrix: SOIL

Received Date: 2/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2300	150		mg/Kg	50	3/2/2023 10:59:08 AM	73447
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/1/2023 11:55:02 PM	73436
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2023 11:55:02 PM	73436
Surr: DNOP	80.3	69-147		%Rec	1	3/1/2023 11:55:02 PM	73436
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/3/2023 3:09:14 AM	73430
Surr: BFB	98.9	37.7-212		%Rec	1	3/3/2023 3:09:14 AM	73430
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/3/2023 3:09:14 AM	73430
Toluene	ND	0.050		mg/Kg	1	3/3/2023 3:09:14 AM	73430
Ethylbenzene	ND	0.050		mg/Kg	1	3/3/2023 3:09:14 AM	73430
Xylenes, Total	ND	0.099		mg/Kg	1	3/3/2023 3:09:14 AM	73430
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	3/3/2023 3:09:14 AM	73430

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302B47

07-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73447	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73447	RunNo: 94974								
Prep Date: 3/1/2023	Analysis Date: 3/1/2023	SeqNo: 3433828	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73447	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73447	RunNo: 94974								
Prep Date: 3/1/2023	Analysis Date: 3/1/2023	SeqNo: 3433829	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B47

07-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: MB-73436	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73436		RunNo: 94952							
Prep Date: 2/28/2023	Analysis Date: 3/1/2023		SeqNo: 3433068		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		92.3	69	147			

Sample ID: LCS-73436	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73436		RunNo: 94952							
Prep Date: 2/28/2023	Analysis Date: 3/1/2023		SeqNo: 3433069		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	61.9	130			
Surr: DNOP	4.6		5.000		92.6	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B47

07-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433961		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433962		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	37.7	212			

Sample ID: lcs-73430	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435300		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	72.3	137			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: MB-73430	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435301		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302B47

07-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: 100ng btex lcs	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: R94977				RunNo: 94977					
Prep Date:	Analysis Date: 3/2/2023				SeqNo: 3433969	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130			

Sample ID: mb	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: R94977				RunNo: 94977					
Prep Date:	Analysis Date: 3/2/2023				SeqNo: 3433970	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: LCS-73430	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 73430				RunNo: 94977					
Prep Date: 2/28/2023	Analysis Date: 3/2/2023				SeqNo: 3435356	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.9	80	120			
Toluene	0.85	0.050	1.000	0	85.3	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.1	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.8	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130			

Sample ID: MB-73430	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73430				RunNo: 94977					
Prep Date: 2/28/2023	Analysis Date: 3/2/2023				SeqNo: 3435357	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2302B47

RcptNo: 1

Received By: Cheyenne Gason 2/28/2023 8:00:00 AM

Completed By: Sean Livingston 2/28/2023 8:28:23 AM

Reviewed By: TMC 2/28/23

Handwritten signature

Handwritten signature

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by: KPa 2.28.23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good	Not Present	YOGI		

Chain-of-Custody Record

Client: EOG / vertex

Mailing Address: On file

Phone #:

email or Fax#:

QA/QC Package:

- ☐ Standard
- ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

□ EDD (Type)

Turn-Around Time:

☐ Standard☒ Rush

Project Name:

class kinetic as I

Project #:

22-E-00716-03

Project Manager:

Chance Dixon

Sampler:

On Ice:

On Ice: ☒ Yes ☐ No Yes!

of Coolers: 1

Cooler Temp (including CF): 0.0 + 0.1 = 0.1 (°C)

Container

Preservative

HEAL No.

Date:	Time:
-------	-------

Relinquished by:

Received by: Via:

Date, Time

Date:	Time:
-------	-------

Relinquished by:

Received by: Via:

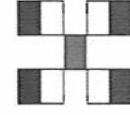
Date _____ Time _____

Cum courier 2/28/23 0800 C.C. SMccarty @ vertex.ca page 1 of 1

Remarks:

Bill directly to: EOG

81E / MTBE / TMB's (8021)	✓	
TPH:8015D(GRO / DRO / MRO)	✓	
8081 Pesticides/8082 PCB's		
EDB (Method 504.1)		
PAHs by 8310 or 8270SIMS		
RCRA 8 Metals		
☑ Cl F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	✓	
8260 (VOA)		
8270 (Semi-VOA)		
Total Coliform (Present/Absent)		



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



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

March 07, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2303002

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 13 sample(s) on 3/1/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-45 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:05:00 AM

Lab ID: 2303002-001

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3100	150		mg/Kg	50	3/2/2023 11:11:28 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 4:06:56 PM	73450
Surr: BFB	110	70-130		%Rec	1	3/2/2023 4:06:56 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	3/2/2023 4:57:14 PM	73456
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 4:57:14 PM	73456
Surr: DNOP	107	69-147		%Rec	1	3/2/2023 4:57:14 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/2/2023 4:06:56 PM	73450
Toluene	ND	0.047		mg/Kg	1	3/2/2023 4:06:56 PM	73450
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 4:06:56 PM	73450
Xylenes, Total	ND	0.094		mg/Kg	1	3/2/2023 4:06:56 PM	73450
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/2/2023 4:06:56 PM	73450
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	3/2/2023 4:06:56 PM	73450
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/2/2023 4:06:56 PM	73450
Surr: Toluene-d8	106	70-130		%Rec	1	3/2/2023 4:06:56 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-46 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:10:00 AM

Lab ID: 2303002-002

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	60		mg/Kg	20	3/2/2023 2:15:27 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 4:34:00 PM	73450
Surr: BFB	110	70-130		%Rec	1	3/2/2023 4:34:00 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/2/2023 5:07:59 PM	73456
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/2/2023 5:07:59 PM	73456
Surr: DNOP	99.3	69-147		%Rec	1	3/2/2023 5:07:59 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 4:34:00 PM	73450
Toluene	ND	0.048		mg/Kg	1	3/2/2023 4:34:00 PM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 4:34:00 PM	73450
Xylenes, Total	ND	0.095		mg/Kg	1	3/2/2023 4:34:00 PM	73450
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	3/2/2023 4:34:00 PM	73450
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	3/2/2023 4:34:00 PM	73450
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/2/2023 4:34:00 PM	73450
Surr: Toluene-d8	102	70-130		%Rec	1	3/2/2023 4:34:00 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-47 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:13:00 AM

Lab ID: 2303002-003

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	790	60		mg/Kg	20	3/2/2023 2:27:51 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 5:01:07 PM	73450
Surr: BFB	114	70-130		%Rec	1	3/2/2023 5:01:07 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/2/2023 5:18:46 PM	73456
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 5:18:46 PM	73456
Surr: DNOP	112	69-147		%Rec	1	3/2/2023 5:18:46 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 5:01:07 PM	73450
Toluene	ND	0.048		mg/Kg	1	3/2/2023 5:01:07 PM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 5:01:07 PM	73450
Xylenes, Total	ND	0.096		mg/Kg	1	3/2/2023 5:01:07 PM	73450
Surr: 1,2-Dichloroethane-d4	128	70-130		%Rec	1	3/2/2023 5:01:07 PM	73450
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/2/2023 5:01:07 PM	73450
Surr: Dibromofluoromethane	116	70-130		%Rec	1	3/2/2023 5:01:07 PM	73450
Surr: Toluene-d8	104	70-130		%Rec	1	3/2/2023 5:01:07 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-48 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:21:00 AM

Lab ID: 2303002-004

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	870	60		mg/Kg	20	3/2/2023 2:40:15 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 5:28:11 PM	73450
Surr: BFB	109	70-130		%Rec	1	3/2/2023 5:28:11 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	3/2/2023 5:29:33 PM	73456
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/2/2023 5:29:33 PM	73456
Surr: DNOP	86.3	69-147		%Rec	1	3/2/2023 5:29:33 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 5:28:11 PM	73450
Toluene	ND	0.048		mg/Kg	1	3/2/2023 5:28:11 PM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 5:28:11 PM	73450
Xylenes, Total	ND	0.096		mg/Kg	1	3/2/2023 5:28:11 PM	73450
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	3/2/2023 5:28:11 PM	73450
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	3/2/2023 5:28:11 PM	73450
Surr: Dibromofluoromethane	110	70-130		%Rec	1	3/2/2023 5:28:11 PM	73450
Surr: Toluene-d8	107	70-130		%Rec	1	3/2/2023 5:28:11 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-49 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:24:00 AM

Lab ID: 2303002-005

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	60		mg/Kg	20	3/2/2023 2:52:40 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 5:55:13 PM	73450
Surr: BFB	110	70-130		%Rec	1	3/2/2023 5:55:13 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/2/2023 5:40:17 PM	73456
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/2/2023 5:40:17 PM	73456
Surr: DNOP	73.1	69-147		%Rec	1	3/2/2023 5:40:17 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 5:55:13 PM	73450
Toluene	ND	0.047		mg/Kg	1	3/2/2023 5:55:13 PM	73450
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 5:55:13 PM	73450
Xylenes, Total	ND	0.094		mg/Kg	1	3/2/2023 5:55:13 PM	73450
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	1	3/2/2023 5:55:13 PM	73450
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	3/2/2023 5:55:13 PM	73450
Surr: Dibromofluoromethane	101	70-130		%Rec	1	3/2/2023 5:55:13 PM	73450
Surr: Toluene-d8	102	70-130		%Rec	1	3/2/2023 5:55:13 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-50 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:44:00 AM

Lab ID: 2303002-006

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	630	60		mg/Kg	20	3/2/2023 3:05:05 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 6:22:16 PM	73450
Surr: BFB	105	70-130		%Rec	1	3/2/2023 6:22:16 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	14	9.5		mg/Kg	1	3/3/2023 12:45:00 PM	73494
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/3/2023 12:45:00 PM	73494
Surr: DNOP	107	69-147		%Rec	1	3/3/2023 12:45:00 PM	73494
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 6:22:16 PM	73450
Toluene	ND	0.047		mg/Kg	1	3/2/2023 6:22:16 PM	73450
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 6:22:16 PM	73450
Xylenes, Total	ND	0.095		mg/Kg	1	3/2/2023 6:22:16 PM	73450
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/2/2023 6:22:16 PM	73450
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/2/2023 6:22:16 PM	73450
Surr: Dibromofluoromethane	110	70-130		%Rec	1	3/2/2023 6:22:16 PM	73450
Surr: Toluene-d8	103	70-130		%Rec	1	3/2/2023 6:22:16 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-51 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 9:48:00 AM

Lab ID: 2303002-007

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	850	60		mg/Kg	20	3/2/2023 3:17:29 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/2/2023 6:49:20 PM	73450
Surr: BFB	105	70-130		%Rec	1	3/2/2023 6:49:20 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/2/2023 6:01:33 PM	73456
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/2/2023 6:01:33 PM	73456
Surr: DNOP	84.1	69-147		%Rec	1	3/2/2023 6:01:33 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/2/2023 6:49:20 PM	73450
Toluene	ND	0.050		mg/Kg	1	3/2/2023 6:49:20 PM	73450
Ethylbenzene	ND	0.050		mg/Kg	1	3/2/2023 6:49:20 PM	73450
Xylenes, Total	ND	0.10		mg/Kg	1	3/2/2023 6:49:20 PM	73450
Surr: 1,2-Dichloroethane-d4	122	70-130		%Rec	1	3/2/2023 6:49:20 PM	73450
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	3/2/2023 6:49:20 PM	73450
Surr: Dibromofluoromethane	116	70-130		%Rec	1	3/2/2023 6:49:20 PM	73450
Surr: Toluene-d8	99.3	70-130		%Rec	1	3/2/2023 6:49:20 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-52 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 10:05:00 AM

Lab ID: 2303002-008

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	830	61		mg/Kg	20	3/2/2023 3:29:53 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/2/2023 7:16:20 PM	73450
Surr: BFB	104	70-130		%Rec	1	3/2/2023 7:16:20 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/2/2023 6:12:08 PM	73456
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 6:12:08 PM	73456
Surr: DNOP	69.3	69-147		%Rec	1	3/2/2023 6:12:08 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 7:16:20 PM	73450
Toluene	ND	0.048		mg/Kg	1	3/2/2023 7:16:20 PM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/2/2023 7:16:20 PM	73450
Xylenes, Total	ND	0.096		mg/Kg	1	3/2/2023 7:16:20 PM	73450
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/2/2023 7:16:20 PM	73450
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	3/2/2023 7:16:20 PM	73450
Surr: Dibromofluoromethane	113	70-130		%Rec	1	3/2/2023 7:16:20 PM	73450
Surr: Toluene-d8	96.6	70-130		%Rec	1	3/2/2023 7:16:20 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-53 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 12:55:00 PM

Lab ID: 2303002-009

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	970	60		mg/Kg	20	3/2/2023 3:42:18 AM	73467
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/2/2023 7:43:22 PM	73450
Surr: BFB	110	70-130		%Rec	1	3/2/2023 7:43:22 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/2/2023 6:22:41 PM	73456
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/2/2023 6:22:41 PM	73456
Surr: DNOP	71.5	69-147		%Rec	1	3/2/2023 6:22:41 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/2/2023 7:43:22 PM	73450
Toluene	ND	0.047		mg/Kg	1	3/2/2023 7:43:22 PM	73450
Ethylbenzene	ND	0.047		mg/Kg	1	3/2/2023 7:43:22 PM	73450
Xylenes, Total	ND	0.094		mg/Kg	1	3/2/2023 7:43:22 PM	73450
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	3/2/2023 7:43:22 PM	73450
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	3/2/2023 7:43:22 PM	73450
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/2/2023 7:43:22 PM	73450
Surr: Toluene-d8	103	70-130		%Rec	1	3/2/2023 7:43:22 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-54 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 12:58:00 PM

Lab ID: 2303002-010

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	60		mg/Kg	20	3/2/2023 9:53:28 PM	73490
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2023 8:10:25 PM	73450
Surr: BFB	107	70-130		%Rec	1	3/2/2023 8:10:25 PM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/3/2023 12:55:39 PM	73494
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/3/2023 12:55:39 PM	73494
Surr: DNOP	89.7	69-147		%Rec	1	3/3/2023 12:55:39 PM	73494
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/2/2023 8:10:25 PM	73450
Toluene	ND	0.049		mg/Kg	1	3/2/2023 8:10:25 PM	73450
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2023 8:10:25 PM	73450
Xylenes, Total	ND	0.097		mg/Kg	1	3/2/2023 8:10:25 PM	73450
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	3/2/2023 8:10:25 PM	73450
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	3/2/2023 8:10:25 PM	73450
Surr: Dibromofluoromethane	109	70-130		%Rec	1	3/2/2023 8:10:25 PM	73450
Surr: Toluene-d8	102	70-130		%Rec	1	3/2/2023 8:10:25 PM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-55 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 1:04:00 PM

Lab ID: 2303002-011

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	61		mg/Kg	20	3/2/2023 10:05:48 PM	73490
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/3/2023 1:07:31 AM	73450
Surr: BFB	104	70-130		%Rec	1	3/3/2023 1:07:31 AM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/2/2023 6:43:42 PM	73456
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/2/2023 6:43:42 PM	73456
Surr: DNOP	79.6	69-147		%Rec	1	3/2/2023 6:43:42 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/3/2023 1:07:31 AM	73450
Toluene	ND	0.048		mg/Kg	1	3/3/2023 1:07:31 AM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/3/2023 1:07:31 AM	73450
Xylenes, Total	ND	0.096		mg/Kg	1	3/3/2023 1:07:31 AM	73450
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	3/3/2023 1:07:31 AM	73450
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	3/3/2023 1:07:31 AM	73450
Surr: Dibromofluoromethane	107	70-130		%Rec	1	3/3/2023 1:07:31 AM	73450
Surr: Toluene-d8	101	70-130		%Rec	1	3/3/2023 1:07:31 AM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-56 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 1:10:00 PM

Lab ID: 2303002-012

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	59		mg/Kg	20	3/2/2023 10:18:09 PM	73490
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/3/2023 1:34:29 AM	73450
Surr: BFB	100	70-130		%Rec	1	3/3/2023 1:34:29 AM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/2/2023 6:54:10 PM	73456
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/2/2023 6:54:10 PM	73456
Surr: DNOP	85.5	69-147		%Rec	1	3/2/2023 6:54:10 PM	73456
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/3/2023 1:34:29 AM	73450
Toluene	ND	0.049		mg/Kg	1	3/3/2023 1:34:29 AM	73450
Ethylbenzene	ND	0.049		mg/Kg	1	3/3/2023 1:34:29 AM	73450
Xylenes, Total	ND	0.097		mg/Kg	1	3/3/2023 1:34:29 AM	73450
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	3/3/2023 1:34:29 AM	73450
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/3/2023 1:34:29 AM	73450
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/3/2023 1:34:29 AM	73450
Surr: Toluene-d8	99.6	70-130		%Rec	1	3/3/2023 1:34:29 AM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303002

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-57 4'

Project: Glass Kincaid OS 1

Collection Date: 2/27/2023 1:14:00 PM

Lab ID: 2303002-013

Matrix: SOIL

Received Date: 3/1/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	840	60		mg/Kg	20	3/2/2023 10:55:10 PM	73490
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/3/2023 2:01:25 AM	73450
Surr: BFB	102	70-130		%Rec	1	3/3/2023 2:01:25 AM	73450
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/3/2023 2:52:31 PM	73494
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/3/2023 2:52:31 PM	73494
Surr: DNOP	90.6	69-147		%Rec	1	3/3/2023 2:52:31 PM	73494
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/3/2023 2:01:25 AM	73450
Toluene	ND	0.048		mg/Kg	1	3/3/2023 2:01:25 AM	73450
Ethylbenzene	ND	0.048		mg/Kg	1	3/3/2023 2:01:25 AM	73450
Xylenes, Total	ND	0.096		mg/Kg	1	3/3/2023 2:01:25 AM	73450
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	1	3/3/2023 2:01:25 AM	73450
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/3/2023 2:01:25 AM	73450
Surr: Dibromofluoromethane	108	70-130		%Rec	1	3/3/2023 2:01:25 AM	73450
Surr: Toluene-d8	102	70-130		%Rec	1	3/3/2023 2:01:25 AM	73450

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303002

07-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: MB-73467	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73467		RunNo: 94974							
Prep Date: 3/1/2023	Analysis Date: 3/1/2023		SeqNo: 3433861		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73467	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73467		RunNo: 94974							
Prep Date: 3/1/2023	Analysis Date: 3/1/2023		SeqNo: 3433862		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: MB-73490	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73490		RunNo: 94984							
Prep Date: 3/2/2023	Analysis Date: 3/2/2023		SeqNo: 3435083		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73490	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73490		RunNo: 94984							
Prep Date: 3/2/2023	Analysis Date: 3/2/2023		SeqNo: 3435084		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303002

07-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: MB-73474	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73474			RunNo: 94965						
Prep Date: 3/2/2023	Analysis Date: 3/2/2023			SeqNo: 3434009	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	69	147			

Sample ID: LCS-73474	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73474			RunNo: 94965						
Prep Date: 3/2/2023	Analysis Date: 3/2/2023			SeqNo: 3434010	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: MB-73456	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73456			RunNo: 94965						
Prep Date: 3/1/2023	Analysis Date: 3/2/2023			SeqNo: 3434451	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	11		10.00		113	69	147			

Sample ID: LCS-73456	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73456			RunNo: 94965						
Prep Date: 3/1/2023	Analysis Date: 3/2/2023			SeqNo: 3434452	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.8	61.9	130			
Surr: DNOP	5.0		5.000		100	69	147			

Sample ID: LCS-73494	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73494			RunNo: 95019						
Prep Date: 3/3/2023	Analysis Date: 3/3/2023			SeqNo: 3435790	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	61.9	130			
Surr: DNOP	4.6		5.000		91.2	69	147			

Sample ID: MB-73494	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73494			RunNo: 95019						
Prep Date: 3/3/2023	Analysis Date: 3/3/2023			SeqNo: 3435793	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303002

07-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73494	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73494	RunNo: 95019								
Prep Date: 3/3/2023	Analysis Date: 3/3/2023	SeqNo: 3435793 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	69	147			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303002

07-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73450	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 73450		RunNo: 94979							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434446		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120			
Toluene	0.87	0.050	1.000	0	87.3	80	120			
Ethylbenzene	0.84	0.050	1.000	0	83.6	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.8	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.9	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			

Sample ID: mb-73450	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 73450		RunNo: 94979							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434447		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.5000		111	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.55		0.5000		110	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303002

07-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73450	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 73450		RunNo: 94979							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434118		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.0	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: mb-73450	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 73450		RunNo: 94979							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434119		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		115	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
 8901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2303002

RcptNo: 1

Received By: Tracy Casarrubias 3/1/2023 8:30:00 AM

Completed By: Tracy Casarrubias 3/1/2023 8:34:39 AM

Reviewed By: DAD 3/1/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐
- # of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
 By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes	Yogi		



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

March 10, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Glass Kincaid OS 1

OrderNo.: 2303088

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/2/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-58 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:30:00 AM

Lab ID: 2303088-001

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	590	60		mg/Kg	20	3/3/2023 12:27:56 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/4/2023 7:13:09 AM	73483
Surr: BFB	111	70-130		%Rec	1	3/4/2023 7:13:09 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/7/2023 2:50:58 PM	73486
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2023 2:50:58 PM	73486
Surr: DNOP	91.7	69-147		%Rec	1	3/7/2023 2:50:58 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 7:13:09 AM	73483
Toluene	ND	0.048		mg/Kg	1	3/4/2023 7:13:09 AM	73483
Ethylbenzene	ND	0.048		mg/Kg	1	3/4/2023 7:13:09 AM	73483
Xylenes, Total	ND	0.096		mg/Kg	1	3/4/2023 7:13:09 AM	73483
Surr: 1,2-Dichloroethane-d4	124	70-130		%Rec	1	3/4/2023 7:13:09 AM	73483
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	3/4/2023 7:13:09 AM	73483
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/4/2023 7:13:09 AM	73483
Surr: Toluene-d8	102	70-130		%Rec	1	3/4/2023 7:13:09 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-59 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:37:00 AM

Lab ID: 2303088-002

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1200	60		mg/Kg	20	3/3/2023 1:29:38 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2023 7:39:59 AM	73483
Surr: BFB	115	70-130		%Rec	1	3/4/2023 7:39:59 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/7/2023 3:01:51 PM	73486
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/7/2023 3:01:51 PM	73486
Surr: DNOP	87.4	69-147		%Rec	1	3/7/2023 3:01:51 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 7:39:59 AM	73483
Toluene	ND	0.049		mg/Kg	1	3/4/2023 7:39:59 AM	73483
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2023 7:39:59 AM	73483
Xylenes, Total	ND	0.098		mg/Kg	1	3/4/2023 7:39:59 AM	73483
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	3/4/2023 7:39:59 AM	73483
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	3/4/2023 7:39:59 AM	73483
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/4/2023 7:39:59 AM	73483
Surr: Toluene-d8	104	70-130		%Rec	1	3/4/2023 7:39:59 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-60 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:40:00 AM

Lab ID: 2303088-003

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1500	60		mg/Kg	20	3/3/2023 1:41:58 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/4/2023 8:06:59 AM	73483
Surr: BFB	110	70-130		%Rec	1	3/4/2023 8:06:59 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/4/2023 12:48:27 AM	73486
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/4/2023 12:48:27 AM	73486
Surr: DNOP	78.7	69-147		%Rec	1	3/4/2023 12:48:27 AM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/4/2023 8:06:59 AM	73483
Toluene	ND	0.046		mg/Kg	1	3/4/2023 8:06:59 AM	73483
Ethylbenzene	ND	0.046		mg/Kg	1	3/4/2023 8:06:59 AM	73483
Xylenes, Total	ND	0.091		mg/Kg	1	3/4/2023 8:06:59 AM	73483
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	3/4/2023 8:06:59 AM	73483
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/4/2023 8:06:59 AM	73483
Surr: Dibromofluoromethane	113	70-130		%Rec	1	3/4/2023 8:06:59 AM	73483
Surr: Toluene-d8	107	70-130		%Rec	1	3/4/2023 8:06:59 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-61 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:42:00 AM

Lab ID: 2303088-004

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	890	60		mg/Kg	20	3/3/2023 1:54:19 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/4/2023 8:34:06 AM	73483
Surr: BFB	109	70-130		%Rec	1	3/4/2023 8:34:06 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/7/2023 3:12:44 PM	73486
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/7/2023 3:12:44 PM	73486
Surr: DNOP	87.9	69-147		%Rec	1	3/7/2023 3:12:44 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 8:34:06 AM	73483
Toluene	ND	0.047		mg/Kg	1	3/4/2023 8:34:06 AM	73483
Ethylbenzene	ND	0.047		mg/Kg	1	3/4/2023 8:34:06 AM	73483
Xylenes, Total	ND	0.095		mg/Kg	1	3/4/2023 8:34:06 AM	73483
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	3/4/2023 8:34:06 AM	73483
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	3/4/2023 8:34:06 AM	73483
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/4/2023 8:34:06 AM	73483
Surr: Toluene-d8	109	70-130		%Rec	1	3/4/2023 8:34:06 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-62 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:52:00 AM

Lab ID: 2303088-005

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1200	60		mg/Kg	20	3/3/2023 2:06:40 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/4/2023 9:01:08 AM	73483
Surr: BFB	108	70-130		%Rec	1	3/4/2023 9:01:08 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/6/2023 3:46:33 PM	73486
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2023 3:46:33 PM	73486
Surr: DNOP	75.1	69-147		%Rec	1	3/6/2023 3:46:33 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 9:01:08 AM	73483
Toluene	ND	0.048		mg/Kg	1	3/4/2023 9:01:08 AM	73483
Ethylbenzene	ND	0.048		mg/Kg	1	3/4/2023 9:01:08 AM	73483
Xylenes, Total	ND	0.097		mg/Kg	1	3/4/2023 9:01:08 AM	73483
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/4/2023 9:01:08 AM	73483
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	3/4/2023 9:01:08 AM	73483
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/4/2023 9:01:08 AM	73483
Surr: Toluene-d8	104	70-130		%Rec	1	3/4/2023 9:01:08 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-63 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 9:56:00 AM

Lab ID: 2303088-006

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1400	60		mg/Kg	20	3/3/2023 2:19:00 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/4/2023 9:28:10 AM	73483
Surr: BFB	109	70-130		%Rec	1	3/4/2023 9:28:10 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/6/2023 4:10:19 PM	73486
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/6/2023 4:10:19 PM	73486
Surr: DNOP	76.5	69-147		%Rec	1	3/6/2023 4:10:19 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/4/2023 9:28:10 AM	73483
Toluene	ND	0.047		mg/Kg	1	3/4/2023 9:28:10 AM	73483
Ethylbenzene	ND	0.047		mg/Kg	1	3/4/2023 9:28:10 AM	73483
Xylenes, Total	ND	0.093		mg/Kg	1	3/4/2023 9:28:10 AM	73483
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	3/4/2023 9:28:10 AM	73483
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/4/2023 9:28:10 AM	73483
Surr: Dibromofluoromethane	112	70-130		%Rec	1	3/4/2023 9:28:10 AM	73483
Surr: Toluene-d8	99.2	70-130		%Rec	1	3/4/2023 9:28:10 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-64 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:01:00 AM

Lab ID: 2303088-007

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	970	60		mg/Kg	20	3/3/2023 2:31:21 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/4/2023 9:55:15 AM	73483
Surr: BFB	105	70-130		%Rec	1	3/4/2023 9:55:15 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/4/2023 1:30:41 AM	73486
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/4/2023 1:30:41 AM	73486
Surr: DNOP	69.7	69-147		%Rec	1	3/4/2023 1:30:41 AM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/4/2023 9:55:15 AM	73483
Toluene	ND	0.050		mg/Kg	1	3/4/2023 9:55:15 AM	73483
Ethylbenzene	ND	0.050		mg/Kg	1	3/4/2023 9:55:15 AM	73483
Xylenes, Total	ND	0.10		mg/Kg	1	3/4/2023 9:55:15 AM	73483
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	3/4/2023 9:55:15 AM	73483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	3/4/2023 9:55:15 AM	73483
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/4/2023 9:55:15 AM	73483
Surr: Toluene-d8	105	70-130		%Rec	1	3/4/2023 9:55:15 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-65 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:06:00 AM

Lab ID: 2303088-008

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	940	60		mg/Kg	20	3/3/2023 2:43:42 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2023 10:22:23 AM	73483
Surr: BFB	104	70-130		%Rec	1	3/4/2023 10:22:23 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/7/2023 3:23:37 PM	73486
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2023 3:23:37 PM	73486
Surr: DNOP	87.9	69-147		%Rec	1	3/7/2023 3:23:37 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 10:22:23 AM	73483
Toluene	ND	0.049		mg/Kg	1	3/4/2023 10:22:23 AM	73483
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2023 10:22:23 AM	73483
Xylenes, Total	ND	0.097		mg/Kg	1	3/4/2023 10:22:23 AM	73483
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	1	3/4/2023 10:22:23 AM	73483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	3/4/2023 10:22:23 AM	73483
Surr: Dibromofluoromethane	107	70-130		%Rec	1	3/4/2023 10:22:23 AM	73483
Surr: Toluene-d8	101	70-130		%Rec	1	3/4/2023 10:22:23 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-66 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:10:00 AM

Lab ID: 2303088-009

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	640	60		mg/Kg	20	3/3/2023 2:56:02 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/4/2023 10:49:35 AM	73483
Surr: BFB	109	70-130		%Rec	1	3/4/2023 10:49:35 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/7/2023 2:02:01 PM	73486
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/7/2023 2:02:01 PM	73486
Surr: DNOP	76.5	69-147		%Rec	1	3/7/2023 2:02:01 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/4/2023 10:49:35 AM	73483
Toluene	ND	0.050		mg/Kg	1	3/4/2023 10:49:35 AM	73483
Ethylbenzene	ND	0.050		mg/Kg	1	3/4/2023 10:49:35 AM	73483
Xylenes, Total	ND	0.099		mg/Kg	1	3/4/2023 10:49:35 AM	73483
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	1	3/4/2023 10:49:35 AM	73483
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	3/4/2023 10:49:35 AM	73483
Surr: Dibromofluoromethane	114	70-130		%Rec	1	3/4/2023 10:49:35 AM	73483
Surr: Toluene-d8	101	70-130		%Rec	1	3/4/2023 10:49:35 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-67 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:13:00 AM

Lab ID: 2303088-010

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	730	60		mg/Kg	20	3/3/2023 3:33:04 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/4/2023 11:16:49 AM	73483
Surr: BFB	105	70-130		%Rec	1	3/4/2023 11:16:49 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/7/2023 2:25:57 PM	73486
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/7/2023 2:25:57 PM	73486
Surr: DNOP	78.6	69-147		%Rec	1	3/7/2023 2:25:57 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/4/2023 11:16:49 AM	73483
Toluene	ND	0.047		mg/Kg	1	3/4/2023 11:16:49 AM	73483
Ethylbenzene	ND	0.047		mg/Kg	1	3/4/2023 11:16:49 AM	73483
Xylenes, Total	ND	0.093		mg/Kg	1	3/4/2023 11:16:49 AM	73483
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	3/4/2023 11:16:49 AM	73483
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/4/2023 11:16:49 AM	73483
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/4/2023 11:16:49 AM	73483
Surr: Toluene-d8	104	70-130		%Rec	1	3/4/2023 11:16:49 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-68 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:16:00 AM

Lab ID: 2303088-011

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1200	60		mg/Kg	20	3/3/2023 3:45:25 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2023 11:44:08 AM	73483
Surr: BFB	105	70-130		%Rec	1	3/4/2023 11:44:08 AM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/7/2023 2:49:59 PM	73486
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/7/2023 2:49:59 PM	73486
Surr: DNOP	77.7	69-147		%Rec	1	3/7/2023 2:49:59 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/4/2023 11:44:08 AM	73483
Toluene	ND	0.049		mg/Kg	1	3/4/2023 11:44:08 AM	73483
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2023 11:44:08 AM	73483
Xylenes, Total	ND	0.097		mg/Kg	1	3/4/2023 11:44:08 AM	73483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	3/4/2023 11:44:08 AM	73483
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	3/4/2023 11:44:08 AM	73483
Surr: Dibromofluoromethane	114	70-130		%Rec	1	3/4/2023 11:44:08 AM	73483
Surr: Toluene-d8	103	70-130		%Rec	1	3/4/2023 11:44:08 AM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303088

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-69 4'

Project: Glass Kincaid OS 1

Collection Date: 2/28/2023 10:20:00 AM

Lab ID: 2303088-012

Matrix: SOIL

Received Date: 3/2/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1700	60		mg/Kg	20	3/3/2023 3:57:46 PM	73498
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/4/2023 12:11:31 PM	73483
Surr: BFB	104	70-130		%Rec	1	3/4/2023 12:11:31 PM	73483
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/6/2023 6:08:38 PM	73486
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/6/2023 6:08:38 PM	73486
Surr: DNOP	90.2	69-147		%Rec	1	3/6/2023 6:08:38 PM	73486
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/4/2023 12:11:31 PM	73483
Toluene	ND	0.047		mg/Kg	1	3/4/2023 12:11:31 PM	73483
Ethylbenzene	ND	0.047		mg/Kg	1	3/4/2023 12:11:31 PM	73483
Xylenes, Total	ND	0.094		mg/Kg	1	3/4/2023 12:11:31 PM	73483
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	1	3/4/2023 12:11:31 PM	73483
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	3/4/2023 12:11:31 PM	73483
Surr: Dibromofluoromethane	109	70-130		%Rec	1	3/4/2023 12:11:31 PM	73483
Surr: Toluene-d8	101	70-130		%Rec	1	3/4/2023 12:11:31 PM	73483

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303088

10-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73498		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73498		RunNo: 95029						
Prep Date: 3/3/2023		Analysis Date: 3/3/2023		SeqNo: 3436122			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73498		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73498		RunNo: 95029						
Prep Date: 3/3/2023		Analysis Date: 3/3/2023		SeqNo: 3436123			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303088

10-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73486	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73486			RunNo: 95019						
Prep Date: 3/2/2023	Analysis Date: 3/3/2023			SeqNo: 3436841	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	61.9	130			
Surr: DNOP	4.5		5.000		89.9	69	147			

Sample ID: MB-73486	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73486			RunNo: 95019						
Prep Date: 3/2/2023	Analysis Date: 3/3/2023			SeqNo: 3436845	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	10		10.00		99.8	69	147			

Sample ID: LCS-73532	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438281	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: MB-73532	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438285	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303088

10-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73483	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 73483	RunNo: 95042								
Prep Date: 3/2/2023	Analysis Date: 3/4/2023	SeqNo: 3437032 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		109	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: MB-73483	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 73483	RunNo: 95042								
Prep Date: 3/2/2023	Analysis Date: 3/3/2023	SeqNo: 3437033 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303088

10-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73483	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 73483			RunNo: 95042						
Prep Date: 3/2/2023	Analysis Date: 3/4/2023			SeqNo: 3436961		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.7	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: MB-73483	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 73483			RunNo: 95042						
Prep Date: 3/2/2023	Analysis Date: 3/3/2023			SeqNo: 3436963		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		107	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2303088

RcptNo: 1

Received By: Tracy Casarrubias 3/2/2023 7:25:00 AM

Completed By: Tracy Casarrubias 3/2/2023 8:35:08 AM

Reviewed By: *[Signature]* 3-2-23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *See 3/2/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes	Morty		



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

March 10, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Glass Kincaid OS 1

OrderNo.: 2303175

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 11 sample(s) on 3/3/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-70 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:33:00 AM

Lab ID: 2303175-001

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	370	59		mg/Kg	20	3/3/2023 6:50:37 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/6/2023 7:27:08 PM	73501
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/6/2023 7:27:08 PM	73501
Surr: DNOP	80.0	69-147		%Rec	1	3/6/2023 7:27:08 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 12:05:00 PM	73497
Surr: BFB	90.2	37.7-212		%Rec	1	3/6/2023 12:05:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 12:05:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 12:05:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 12:05:00 PM	73497
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2023 12:05:00 PM	73497
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	3/6/2023 12:05:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-71 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:38:00 AM

Lab ID: 2303175-002

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	600	60		mg/Kg	20	3/3/2023 7:27:40 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/6/2023 7:37:49 PM	73501
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/6/2023 7:37:49 PM	73501
Surr: DNOP	80.0	69-147		%Rec	1	3/6/2023 7:37:49 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/6/2023 1:10:00 PM	73497
Surr: BFB	89.4	37.7-212		%Rec	1	3/6/2023 1:10:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/6/2023 1:10:00 PM	73497
Toluene	ND	0.047		mg/Kg	1	3/6/2023 1:10:00 PM	73497
Ethylbenzene	ND	0.047		mg/Kg	1	3/6/2023 1:10:00 PM	73497
Xylenes, Total	ND	0.094		mg/Kg	1	3/6/2023 1:10:00 PM	73497
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	3/6/2023 1:10:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-72 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:40:00 AM

Lab ID: 2303175-003

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2400	150		mg/Kg	50	3/6/2023 10:27:28 AM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	16	8.9		mg/Kg	1	3/6/2023 7:48:39 PM	73501
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2023 7:48:39 PM	73501
Surr: DNOP	88.7	69-147		%Rec	1	3/6/2023 7:48:39 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2023 1:31:00 PM	73497
Surr: BFB	90.7	37.7-212		%Rec	1	3/6/2023 1:31:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 1:31:00 PM	73497
Toluene	ND	0.049		mg/Kg	1	3/6/2023 1:31:00 PM	73497
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2023 1:31:00 PM	73497
Xylenes, Total	ND	0.098		mg/Kg	1	3/6/2023 1:31:00 PM	73497
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	3/6/2023 1:31:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-73 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:44:00 AM

Lab ID: 2303175-004

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3600	150		mg/Kg	50	3/6/2023 10:39:52 AM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	11	8.5		mg/Kg	1	3/6/2023 7:59:28 PM	73501
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/6/2023 7:59:28 PM	73501
Surr: DNOP	85.0	69-147		%Rec	1	3/6/2023 7:59:28 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 1:53:00 PM	73497
Surr: BFB	88.5	37.7-212		%Rec	1	3/6/2023 1:53:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 1:53:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 1:53:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 1:53:00 PM	73497
Xylenes, Total	ND	0.096		mg/Kg	1	3/6/2023 1:53:00 PM	73497
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/6/2023 1:53:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-74 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:47:00 AM

Lab ID: 2303175-005

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3100	150		mg/Kg	50	3/6/2023 10:52:16 AM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	13	9.1		mg/Kg	1	3/6/2023 8:10:17 PM	73501
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/6/2023 8:10:17 PM	73501
Surr: DNOP	84.8	69-147		%Rec	1	3/6/2023 8:10:17 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 2:15:00 PM	73497
Surr: BFB	92.8	37.7-212		%Rec	1	3/6/2023 2:15:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 2:15:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 2:15:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 2:15:00 PM	73497
Xylenes, Total	ND	0.097		mg/Kg	1	3/6/2023 2:15:00 PM	73497
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	3/6/2023 2:15:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-75 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:51:00 AM

Lab ID: 2303175-006

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	4100	150		mg/Kg	50	3/6/2023 11:04:42 AM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	20	8.9		mg/Kg	1	3/6/2023 8:21:04 PM	73501
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/6/2023 8:21:04 PM	73501
Surr: DNOP	91.1	69-147		%Rec	1	3/6/2023 8:21:04 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 2:36:00 PM	73497
Surr: BFB	84.6	37.7-212		%Rec	1	3/6/2023 2:36:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 2:36:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 2:36:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 2:36:00 PM	73497
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2023 2:36:00 PM	73497
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	3/6/2023 2:36:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-76 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 8:57:00 AM

Lab ID: 2303175-007

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2600	150		mg/Kg	50	3/6/2023 11:17:06 AM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	12	8.7		mg/Kg	1	3/6/2023 8:31:51 PM	73501
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/6/2023 8:31:51 PM	73501
Surr: DNOP	97.4	69-147		%Rec	1	3/6/2023 8:31:51 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 2:58:00 PM	73497
Surr: BFB	85.3	37.7-212		%Rec	1	3/6/2023 2:58:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 2:58:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 2:58:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 2:58:00 PM	73497
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2023 2:58:00 PM	73497
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	3/6/2023 2:58:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-77 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 9:00:00 AM

Lab ID: 2303175-008

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2000	60		mg/Kg	20	3/3/2023 9:06:27 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	3/6/2023 8:42:37 PM	73501
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/6/2023 8:42:37 PM	73501
Surr: DNOP	88.7	69-147		%Rec	1	3/6/2023 8:42:37 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2023 3:20:00 PM	73497
Surr: BFB	93.3	37.7-212		%Rec	1	3/6/2023 3:20:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 3:20:00 PM	73497
Toluene	ND	0.049		mg/Kg	1	3/6/2023 3:20:00 PM	73497
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2023 3:20:00 PM	73497
Xylenes, Total	ND	0.098		mg/Kg	1	3/6/2023 3:20:00 PM	73497
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	3/6/2023 3:20:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-78 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 9:02:00 AM

Lab ID: 2303175-009

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1200	60		mg/Kg	20	3/3/2023 9:18:47 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/6/2023 9:03:51 PM	73501
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2023 9:03:51 PM	73501
Surr: DNOP	90.5	69-147		%Rec	1	3/6/2023 9:03:51 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2023 3:41:00 PM	73497
Surr: BFB	89.0	37.7-212		%Rec	1	3/6/2023 3:41:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 3:41:00 PM	73497
Toluene	ND	0.048		mg/Kg	1	3/6/2023 3:41:00 PM	73497
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2023 3:41:00 PM	73497
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2023 3:41:00 PM	73497
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/6/2023 3:41:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-79 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 9:05:00 AM

Lab ID: 2303175-010

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	520	60		mg/Kg	20	3/3/2023 9:31:08 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/6/2023 9:14:35 PM	73501
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/6/2023 9:14:35 PM	73501
Surr: DNOP	93.7	69-147		%Rec	1	3/6/2023 9:14:35 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/6/2023 4:24:00 PM	73497
Surr: BFB	88.7	37.7-212		%Rec	1	3/6/2023 4:24:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/6/2023 4:24:00 PM	73497
Toluene	ND	0.050		mg/Kg	1	3/6/2023 4:24:00 PM	73497
Ethylbenzene	ND	0.050		mg/Kg	1	3/6/2023 4:24:00 PM	73497
Xylenes, Total	ND	0.099		mg/Kg	1	3/6/2023 4:24:00 PM	73497
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	3/6/2023 4:24:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303175

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-80 4'

Project: Glass Kincaid OS 1

Collection Date: 3/1/2023 9:07:00 AM

Lab ID: 2303175-011

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	460	60		mg/Kg	20	3/3/2023 9:43:28 PM	73511
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/6/2023 9:25:17 PM	73501
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/6/2023 9:25:17 PM	73501
Surr: DNOP	84.7	69-147		%Rec	1	3/6/2023 9:25:17 PM	73501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/6/2023 4:46:00 PM	73497
Surr: BFB	84.4	37.7-212		%Rec	1	3/6/2023 4:46:00 PM	73497
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/6/2023 4:46:00 PM	73497
Toluene	ND	0.047		mg/Kg	1	3/6/2023 4:46:00 PM	73497
Ethylbenzene	ND	0.047		mg/Kg	1	3/6/2023 4:46:00 PM	73497
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2023 4:46:00 PM	73497
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/6/2023 4:46:00 PM	73497

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303175

10-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: MB-73511		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73511		RunNo: 95029						
Prep Date: 3/3/2023		Analysis Date: 3/3/2023		SeqNo: 3436153			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73511		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73511		RunNo: 95029						
Prep Date: 3/3/2023		Analysis Date: 3/3/2023		SeqNo: 3436154			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303175

10-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73501	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73501			RunNo: 95068						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3438072		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	61.9	130			
Surr: DNOP	4.4		5.000		88.1	69	147			

Sample ID: MB-73501	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73501			RunNo: 95068						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3438075		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	9.0		10.00		89.5	69	147			

Sample ID: LCS-73532	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438281		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: MB-73532	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73532			RunNo: 95077						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3438285		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303175

10-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: Ics-73497	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73497			RunNo: 95057						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3437771		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	90.0	70	130			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: MB-73497	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73497			RunNo: 95057						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3437780		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303175

10-Mar-23

Client: EOG**Project:** Glass Kincaid OS 1

Sample ID: LCS-73497	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73497			RunNo: 95057						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3437776		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.8	80	120			
Toluene	0.83	0.050	1.000	0	82.7	80	120			
Ethylbenzene	0.81	0.050	1.000	0	81.4	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.2	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: MB-73497	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73497			RunNo: 95057						
Prep Date: 3/3/2023	Analysis Date: 3/6/2023			SeqNo: 3437779		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2303175

RcptNo: 1

Received By: Tracy Casarrubias 3/3/2023 7:30:00 AM

Completed By: Sean Livingston 3/3/2023 7:55:33 AM

Reviewed By: *JA 3-3-23*

San Lopez

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0° C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPA 2-2*

KPA 3-3-23

3-3-23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present	Morty		



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

March 10, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Glass Kincaid OS 1

OrderNo.: 2303209

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/4/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-81 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:18:00 AM

Lab ID: 2303209-001

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	770	60		mg/Kg	20	3/7/2023 4:43:49 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/7/2023 9:49:00 PM	73532
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2023 9:49:00 PM	73532
Surr: DNOP	81.9	69-147		%Rec	1	3/7/2023 9:49:00 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 11:35:12 AM	73516
Surr: BFB	100	37.7-212		%Rec	1	3/7/2023 11:35:12 AM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 11:35:12 AM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 11:35:12 AM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 11:35:12 AM	73516
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2023 11:35:12 AM	73516
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	3/7/2023 11:35:12 AM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-82 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:21:00 AM

Lab ID: 2303209-002

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	1100	60		mg/Kg	20	3/7/2023 4:56:14 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/8/2023 3:19:50 PM	73532
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2023 3:19:50 PM	73532
Surr: DNOP	96.3	69-147		%Rec	1	3/8/2023 3:19:50 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 11:58:59 AM	73516
Surr: BFB	103	37.7-212		%Rec	1	3/7/2023 11:58:59 AM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 11:58:59 AM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 11:58:59 AM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 11:58:59 AM	73516
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2023 11:58:59 AM	73516
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	3/7/2023 11:58:59 AM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-83 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:24:00 AM

Lab ID: 2303209-003

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	550	60		mg/Kg	20	3/7/2023 5:08:38 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/7/2023 10:31:16 PM	73532
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/7/2023 10:31:16 PM	73532
Surr: DNOP	95.6	69-147		%Rec	1	3/7/2023 10:31:16 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 12:22:32 PM	73516
Surr: BFB	105	37.7-212		%Rec	1	3/7/2023 12:22:32 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 12:22:32 PM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 12:22:32 PM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 12:22:32 PM	73516
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2023 12:22:32 PM	73516
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	3/7/2023 12:22:32 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-84 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:28:00 AM

Lab ID: 2303209-004

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	700	60		mg/Kg	20	3/7/2023 5:21:03 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/8/2023 3:30:29 PM	73532
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/8/2023 3:30:29 PM	73532
Surr: DNOP	93.5	69-147		%Rec	1	3/8/2023 3:30:29 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 12:46:04 PM	73516
Surr: BFB	105	37.7-212		%Rec	1	3/7/2023 12:46:04 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 12:46:04 PM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 12:46:04 PM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 12:46:04 PM	73516
Xylenes, Total	ND	0.096		mg/Kg	1	3/7/2023 12:46:04 PM	73516
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	3/7/2023 12:46:04 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-85 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:32:00 AM

Lab ID: 2303209-005

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	510	61		mg/Kg	20	3/7/2023 5:33:27 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/7/2023 10:52:19 PM	73532
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/7/2023 10:52:19 PM	73532
Surr: DNOP	77.8	69-147		%Rec	1	3/7/2023 10:52:19 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/7/2023 1:09:32 PM	73516
Surr: BFB	103	37.7-212		%Rec	1	3/7/2023 1:09:32 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 1:09:32 PM	73516
Toluene	ND	0.047		mg/Kg	1	3/7/2023 1:09:32 PM	73516
Ethylbenzene	ND	0.047		mg/Kg	1	3/7/2023 1:09:32 PM	73516
Xylenes, Total	ND	0.095		mg/Kg	1	3/7/2023 1:09:32 PM	73516
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/7/2023 1:09:32 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-86 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:35:00 AM

Lab ID: 2303209-006

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	870	60		mg/Kg	20	3/7/2023 5:45:52 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2023 3:41:09 PM	73532
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2023 3:41:09 PM	73532
Surr: DNOP	94.6	69-147		%Rec	1	3/8/2023 3:41:09 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2023 1:33:16 PM	73516
Surr: BFB	104	37.7-212		%Rec	1	3/7/2023 1:33:16 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/7/2023 1:33:16 PM	73516
Toluene	ND	0.049		mg/Kg	1	3/7/2023 1:33:16 PM	73516
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2023 1:33:16 PM	73516
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2023 1:33:16 PM	73516
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/7/2023 1:33:16 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-87 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:38:00 AM

Lab ID: 2303209-007

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	1900	60		mg/Kg	20	3/7/2023 5:58:17 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2023 11:13:16 PM	73532
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2023 11:13:16 PM	73532
Surr: DNOP	71.7	69-147		%Rec	1	3/7/2023 11:13:16 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/7/2023 1:57:10 PM	73516
Surr: BFB	103	37.7-212		%Rec	1	3/7/2023 1:57:10 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/7/2023 1:57:10 PM	73516
Toluene	ND	0.047		mg/Kg	1	3/7/2023 1:57:10 PM	73516
Ethylbenzene	ND	0.047		mg/Kg	1	3/7/2023 1:57:10 PM	73516
Xylenes, Total	ND	0.094		mg/Kg	1	3/7/2023 1:57:10 PM	73516
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	3/7/2023 1:57:10 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-88 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:41:00 AM

Lab ID: 2303209-008

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	1100	60		mg/Kg	20	3/7/2023 6:10:42 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2023 11:23:44 PM	73532
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2023 11:23:44 PM	73532
Surr: DNOP	70.5	69-147		%Rec	1	3/7/2023 11:23:44 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/7/2023 2:21:00 PM	73516
Surr: BFB	102	37.7-212		%Rec	1	3/7/2023 2:21:00 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/7/2023 2:21:00 PM	73516
Toluene	ND	0.050		mg/Kg	1	3/7/2023 2:21:00 PM	73516
Ethylbenzene	ND	0.050		mg/Kg	1	3/7/2023 2:21:00 PM	73516
Xylenes, Total	ND	0.099		mg/Kg	1	3/7/2023 2:21:00 PM	73516
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	3/7/2023 2:21:00 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-89 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:48:00 AM

Lab ID: 2303209-009

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	1400	59		mg/Kg	20	3/7/2023 6:47:55 PM	73549
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	59	8.9		mg/Kg	1	3/8/2023 3:51:53 PM	73532
Motor Oil Range Organics (MRO)	100	45		mg/Kg	1	3/8/2023 3:51:53 PM	73532
Surr: DNOP	90.5	69-147		%Rec	1	3/8/2023 3:51:53 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/7/2023 2:44:43 PM	73516
Surr: BFB	99.7	37.7-212		%Rec	1	3/7/2023 2:44:43 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/7/2023 2:44:43 PM	73516
Toluene	ND	0.047		mg/Kg	1	3/7/2023 2:44:43 PM	73516
Ethylbenzene	ND	0.047		mg/Kg	1	3/7/2023 2:44:43 PM	73516
Xylenes, Total	ND	0.093		mg/Kg	1	3/7/2023 2:44:43 PM	73516
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	3/7/2023 2:44:43 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303209

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-90 4'

Project: Glass Kincaid OS 1

Collection Date: 3/2/2023 8:50:00 AM

Lab ID: 2303209-010

Matrix: SOIL

Received Date: 3/4/2023 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	910	60		mg/Kg	20	3/8/2023 1:27:07 PM	73574
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2023 11:55:03 PM	73532
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/7/2023 11:55:03 PM	73532
Surr: DNOP	78.6	69-147		%Rec	1	3/7/2023 11:55:03 PM	73532
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2023 3:08:22 PM	73516
Surr: BFB	103	37.7-212		%Rec	1	3/7/2023 3:08:22 PM	73516
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/7/2023 3:08:22 PM	73516
Toluene	ND	0.048		mg/Kg	1	3/7/2023 3:08:22 PM	73516
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2023 3:08:22 PM	73516
Xylenes, Total	ND	0.095		mg/Kg	1	3/7/2023 3:08:22 PM	73516
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/7/2023 3:08:22 PM	73516

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303209

10-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: MB-73549	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73549	RunNo: 95102								
Prep Date: 3/7/2023	Analysis Date: 3/7/2023	SeqNo: 3439475 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73549	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73549	RunNo: 95102								
Prep Date: 3/7/2023	Analysis Date: 3/7/2023	SeqNo: 3439476 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: MB-73574	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73574	RunNo: 95131								
Prep Date: 3/8/2023	Analysis Date: 3/8/2023	SeqNo: 3440395 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73574	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73574	RunNo: 95131								
Prep Date: 3/8/2023	Analysis Date: 3/8/2023	SeqNo: 3440396 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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303209

10-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: LCS-73532	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73532	RunNo: 95077								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438281	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.2	61.9	130			
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: MB-73532	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73532	RunNo: 95077								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438285	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303209

10-Mar-23

Client: EOG

Project: Glass Kincaid OS 1

Sample ID: lcs-73516	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 73516	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3437813 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	96.4	70	130			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: mb-73516	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73516	RunNo: 95061								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3437924 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 14

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303209

10-Mar-23

Client: EOG
Project: Glass Kincaid OS 1

Sample ID: LCS-73516	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73516			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3437904		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	80	120			
Toluene	0.86	0.050	1.000	0	85.7	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.0	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: mb-73516	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73516			RunNo: 95061						
Prep Date: 3/6/2023	Analysis Date: 3/7/2023			SeqNo: 3437925		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2303209

RcptNo: 1

Received By: Tracy Casarrubias 3/4/2023 9:30:00 AM

Completed By: Tracy Casarrubias 3/4/2023 10:09:48 AM

Reviewed By: *Tracy* 3/6/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Tracy* 3/4/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes	Morty		



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

March 10, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Glass Kincaid

OrderNo.: 2303378

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/8/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303378

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-35 4.5'

Project: Glass Kincaid

Collection Date: 3/3/2023 2:30:00 PM

Lab ID: 2303378-001

Matrix: MEOH (SOIL)

Received Date: 3/8/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	2300	60		mg/Kg	20	3/8/2023 1:14:43 PM	73574
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/8/2023 10:25:59 AM	73568
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2023 10:25:59 AM	73568
Surr: DNOP	91.5	69-147		%Rec	1	3/8/2023 10:25:59 AM	73568
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2023 11:05:00 AM	GS95092
Surr: BFB	92.3	37.7-212		%Rec	1	3/8/2023 11:05:00 AM	GS95092
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/8/2023 11:05:00 AM	BS95092
Toluene	ND	0.047		mg/Kg	1	3/8/2023 11:05:00 AM	BS95092
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2023 11:05:00 AM	BS95092
Xylenes, Total	ND	0.094		mg/Kg	1	3/8/2023 11:05:00 AM	BS95092
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	3/8/2023 11:05:00 AM	BS95092

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303378

10-Mar-23

Client: EOG

Project: Glass Kincaid

Sample ID: MB-73574		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73574		RunNo: 95131						
Prep Date: 3/8/2023		Analysis Date: 3/8/2023		SeqNo: 3440395		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73574		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73574		RunNo: 95131						
Prep Date: 3/8/2023		Analysis Date: 3/8/2023		SeqNo: 3440396		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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303378

10-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: LCS-73568	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73568			RunNo: 95100						
Prep Date: 3/8/2023	Analysis Date: 3/8/2023			SeqNo: 3439417		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.4	61.9	130			
Surr: DNOP	4.1		5.000		82.5	69	147			

Sample ID: MB-73568	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73568			RunNo: 95100						
Prep Date: 3/8/2023	Analysis Date: 3/8/2023			SeqNo: 3439418		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.8	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303378

10-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: GS95092			RunNo: 95092						
Prep Date:	Analysis Date: 3/8/2023			SeqNo: 3439423		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	94.0	70	130			
Surr: BFB	2200		1000		220	37.7	212			S

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: GS95092			RunNo: 95092						
Prep Date:	Analysis Date: 3/8/2023			SeqNo: 3439424		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303378

10-Mar-23

Client: EOG
Project: Glass Kincaid

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS95092			RunNo: 95092						
Prep Date:	Analysis Date: 3/8/2023			SeqNo: 3439426		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: BS95092			RunNo: 95092						
Prep Date:	Analysis Date: 3/8/2023			SeqNo: 3439427		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	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
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P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2303378

RcptNo: 1

Received By: Juan Rojas 3/8/2023 7:30:00 AM

Completed By: Sean Livingston 3/8/2023 7:57:44 AM

Reviewed By: *JS 3-8-23*

Guanzhi

Sean Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0° C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JS 3/8/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present	Morty		

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

Action 202266

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 202266
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2300530365 GLASS KINCAID OS #1, thank you. This closure is approved.	8/15/2023