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

)

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Incident ID	nAPP2132562482
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Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party: Novo Oil & Gas Northern Delaware, LLC	OGRID: 372920
Contact Name: Kurt A. Shipley	Contact Telephone: 405-286-3916
Contact email: kshipley@novoog.com	Incident # (assigned by OCD): nAPP2132562482
Contact mailing address: 1001 West Wilshire Blvd., Suite 206 Oklahoma City, OK 73116	

## **Location of Release Source**

Latitude <u>32.34103</u>

Longitude <u>-104.084188</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Culebra Bluff CTB3 (before San Mateo Meter)	Site Type: Produced Water Line (production)
Date Release Discovered: 11/20/2021 at 1:00am	API# (if applicable)

Unit Letter	Section	Township	Range	County
	4	T22S	R28E	Eddy

Surface Owner: State Federal Tribal Private (Name:

# Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 660	Volume Recovered (bbls): 150
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		·
	nt produced water pipeline occurred at camel bac d water: 17,000 bbl/day = 708 bbl/hour = 12 bbl/m se for 55 minutes	
Volume: 12 bbl/min X 55 minutes = 660 bbls (27,720 gallons) estimated to have been released		

#### Oil Conservation Division

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Calculated volume of the release was 660 bbls of produced water, which is greater than the 25 bbl threshold defining a major release.
🛛 Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notification was provided by Kurt Shipley on November 20, 2021 at 2:00pm by phone. Notification was made to the NMOCD – Artesia Office (575.703.3842). A recorded message was provided on the hotline voicemail (a specific person did not answer). Bryan Haney with Altamira-US (on behalf of Novo Oil & Gas Northern Delaware, LLC.) submitted notification of a release (NOR) on the online OCD system on November 21, 2021.

## **Initial Response**

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

 $\square$  The source of the release has been stopped.

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

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

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

If all the actions described above have <u>not</u> been undertaken, explain why:

All actions above have been completed.

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: Kurt A. Shipley	Title: Chief Operating Officer
Signature:	Date: December 2, 2021
email: <u>kshipley@novoog.com</u>	Telephone: <u>405-286-3916</u>
OCD Only	
Received by:	Date:

Oil Conservation Division

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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>46.5</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

🛛 Field data

Page 3

Data table of soil contaminant concentration data

Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

Received by OCD:	5/20/2022 3:34:57 PM State of New Mexico			<b>Page 4 of 3</b> 77
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regulations all oper public health or the failed to adequately addition, OCD acc and/or regulations. Printed Name: Signature: email: <u>kshipley</u>	Kurt A. Shipley	ns and perform co bes not relieve the coundwater, surfa sibility for compl Title: <u>Chief C</u> Date: <u>5-18</u>	prrective actions for rele operator of liability sho ce water, human health iance with any other fec Operating Officer	ases which may endanger ould their operations have or the environment. In
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Facility ID Application ID

#### Oil Conservation Division

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HA ACCACCMANI/I NOPO/HAPI/OHAA	ite Assessment/Characterization

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Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

🛛 Field data

Page 3

Data table of soil contaminant concentration data

 $\boxtimes$  Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

Page 4 OcD: 5/20/2022 3:34:57 PM State of New Mexico Oil Conservation Division	Incident ID District RP	nAPP2132562482
Page 4 Oil Conservation Division	District DD	
	DISTRICT RP	
	Facility ID	
	Application ID	
Signature:	nd perform corrective actions for rel not relieve the operator of liability sh dwater, surface water, human health	eases which may endanger hould their operations have hor the environment. In
OCD Only         Received by:       Robert Hamlet	Date: <u>9/21/2022</u>	



Assessment Report Produced Water Line Release Incident ID No. nAPP2132562482 Culebra Bluff CTB3 (before San Mateo Meter) Discovery Date: November 20, 2021 Eddy County, New Mexico

> Prepared for: Novo Oil & Gas Northern Delaware, LLC 1001 West Wilshire Blvd., Suite 206 Oklahoma City, Oklahoma 73116

> > **Prepared By:**

Altamira-US Bryan Haney, P.G. TX 929 Corpus Christi, Texas 78418 (361)658-3126

May 20, 2022



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- Appendix F Plugging Report
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#### **ACRONYMS AND ABBREVIATIONS**

Altamira	Altamira-US, LLC
Novo	Novo Oil & Gas Northern Delaware, LLC
bgs	below ground surface
bbl	barrels
mg/Kg	milligram per kilogram
NMOCD	New Mexico Oil Conservation District
TPH	Total Petroleum Hydrocarbons
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes

## 1.0 INTRODUCTION

Novo Oil & Gas Northern Delaware, LLC (Novo Oil & Gas) (OGRID No. 372920) operates a facility known as the "Culebra Fluff CTB3" located in Field Name Purple Sage – Wolfcamp, T23S, R28E, Section 4, Quarter NE, in Eddy County, New Mexico. On November 20, 2021, field personnel for Novo Oil & Gas discovered a release of produced water from a permanent produced water line. The produced water line and point of release is located in an open area between the Goonch Pad H and Goonch CTB3 operational pad. The release area is located approximately one mile southwest of the intersection of Highway 605 and Herradura Bend Road at latitude N32.34103, longitude W-104.084188 (Figure 1 and Figure 2). This Assessment Report has been prepared to document initial response actions and soil assessment efforts.

#### 1.1 Release Details and Initial Response

On November 20, 2021, at approximately 1:00 am a release of produced water occurred as a result of a break on the permanent produced water pipeline at the camel back riser located above the ground surface. Approximately 660 barrels of produced water was released into the area between the Goonch Pad H and Goonch CTB3 operational pads. The release of produced water from the camel back riser piping extended generally to the south and east across the lower lying area. The release area is depicted on **(Figure 3)**.

The release of produced water was identified by Novo Oil & Gas personnel and steps were taken to mitigate further release and contain and remove pooled areas of produced water. Novo Oil & Gas estimated approximately 660 barrels of produced water was released and approximately 150 barrels of produced water was recovered using vacuum trucks. The justification for the quantity release is based on the following:

- Pump rate of produced water: 17,000 bbl per day = 708 bbl per hour = 12 bbl per minute
- Pump ran for approximately 55 minutes during release
- Volume: 12 bbl per minute x 55 minutes = 660 bbl of produced water

The area of the release between the two pads contains numerous buried pipelines, pipeline right-of-ways, and construction right-of-ways. Soil assessment activities were conducted to the best extent possible while adhering to safety requirements from the pipeline companies. It should also be noted that significant dirt work and pipeline installation occurred following the November 20, 2021, release which may have acted to spread the extent of chloride impacts within the area.

#### 1.2 Notification

Based on the quantity of produced water released being greater than 25 barrels, the release was determined to be a Major release per 19.15.29.7.A NMAC. Immediate notification was provided by Kurt Shipley to the NMOCD and BLM hotlines on November 20, 2021. The initial online release notification was submitted to the New Mexico Oil Conservation District (NMOCD) on November 21, 2021. The OCD issued incident ID# nAPP2132562482. Form C-141 Release Notification was prepared and submitted online with payment on December 2, 2021. Written notification of the release (BLM Major Undesirable Event Report) was also provided to the BLM. Copies of the

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C-141 Release Notification form and BLM Major Undesirable Event Report are provided in **Appendix A**.

#### 1.3 **Project Objectives**

The project objectives were to: 1) conduct initial release cleanup efforts and 2) conduct soil assessment activities to evaluate general degree of impact to soil and provide general delineation laterally and vertically.

#### 1.4 Regulatory Framework

The Site is subject to environmental regulatory oversight by the NMOCD and regulations set forth in Title 19, Chapter 15, Part 29. Notification and assessment activities were conducted in accordance with guidelines outlined in 19.15.29 NMAC.

#### 2.0 STANDARD OF CARE, LIMITATIONS, & RELIANCE

#### 2.1 Standard of Care

Altamira's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same period of time. Altamira makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Altamira does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

#### 2.2 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Altamira cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Altamira's findings and recommendations are based solely upon data available to Altamira at the time of these services.

#### 3.0 RECEPTOR AND WATER SOURCES SURVEY

#### 3.1 Wellhead Protection Discussion

During assessment field activities, Altamira field personnel conducted a 0.5-mile radius search of the surrounding area to determine the presence of any known private or domestic water sources. During the search, no water well or springs were identified within 0.5 miles of the release area. Altamira also reviewed available maps, satellite imagery, and reviewed the New Mexico Office of the State Engineers GIS database to search for known water wells. In review of the State

Engineers GIS database, no water wells, monitoring wells or other subsurface water conveyances were identified within 0.5 miles of the release area.

Based on review of the FEMA Flood Map for the site area, the release area is located in Zone X "Area of Minimal Flood Hazard" (FIRM Panel 35015C1350D).

#### 3.2 Significant Water Source Discussion

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.39 miles west of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 4.5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

#### 4.0 SOIL ASSESSMENT ACTIVITIES

Atlamira on behalf of Novo Oil & Gas conducted the first round of soil assessment activities January 25-26, 2022, in the area of the produced water release to determine the degree of impact to soil. A total of 21 soil borings were installed to attempt to delineate the vertical and lateral extent of potential constituents of concern. Eleven soil borings (SB-2 – SB-11 and SB-12) were installed within the source/release area. Ten soil borings were installed to determine the lateral extent of potential impacts to soil (SB-1 and SB-13 – SB-21) (Figure 3). Installation of soil borings using a drill rig during the January 2022 assessment was limited to soil boring locations SB-1 and SB-2 due to significant construction and presence of numerous underground pipelines in the area. Remaining soil borings were installed using a stainless-steel hand auger (but depth limited due to rocky lithologic matrix).

During April 27-28, 2022, Altamira conducted additional soil assessment activities in select locations to better determine the vertical and lateral extent of chlorides in soil. Soil boring SB-2 was resampled to achieve vertical delineation near the point of release. Eight additional soil borings were installed at previous shallow soil boring locations to determine the vertical extent of chlorides in soil. Two new soil borings were installed (SB-22 and SB-23) for lateral delineation of chlorides in soil. Soil borings were installed using a combination of solid flight auger and air rotary drilling methods due to the rocky lithologic matrix.

There is a significant safety concern in the general release area due to the numerous underground pipelines located at various depths below ground surface, active right-of-way, and active construction right-of-way. Placement of soil borings in some areas was limited.

#### 4.1 Boring Installation and Soil Sample Methodology – January 2022

Prior to site assessment activities, Novo Oil & Gas prepared and submitted the WR-07 Application for Permit to Drill Well w/No Water Right and the WD-08 Well Plugging Plan of Operations **(Appendix B)** through the New Mexico Office of the State Engineers Office. A state line/utility locate (811) was conducted to notify utility companies to properly mark utilities in the radius of the work area. Altamira and Novo Oil & Gas also provided 48-hour notification to the NMOCD and BLM via email **(Appendix A)**.

Soil borings SB-1 and SB-2 were installed by White Drilling Company using an air rotary drill rig. Soil samples were collected using a combination of stainless-steel split spoon sampling device and cuttings (dependent on lithology). Soil boring SB-1 was advanced to a total depth of 50-feet below ground surface for the purpose of lateral delineation and determination of depth of groundwater. Soil borings SB-3 through SB-21 were installed to various depths (to the extent possible) using a stainless-steel hand auger.

Soil samples were collected continuously from the surface to the total depth of each soil boring. Representative soil/rock from each one to two-foot interval was placed into a plastic bag, allowed to equilibrate and field screened with a photo-ionization detector (PID) for the presence of organic vapors. Soil samples were lithologically described and observations noted on soil boring logs **(Appendix D)**. Soil samples were collected and submitted for laboratory analysis generally from the surface to the total depth of each soil boring in one to two-foot sample intervals. Soil samples were placed in laboratory provided containers, labeled, and maintained/preserved on ice in an insulated cooler with chain-of-custody documentation.

The soil sample analysis was initially conducted on the first two shallow depth sample intervals. If a constituent of concern exceeded the Assessment/Closure Criteria set forth 19.15.29 NMAC then the constituent in the next deeper sample interval was also analyzed until vertical delineation was achieved. Soil samples were submitted to Pace Analytical National in Mount Juliet, Tennessee for analysis. Soil samples were collected and submitted for analysis for the following:

- Chlorides EPA 300.0
- TPH (GRO, DRO, MRO) EPA SW-846 Method 8015M
- BTEX EPA SW-846 Method 8260B

The initial soil sample interval 0-1 foot was analyzed for chlorides, TPH, and BTEX. If a constituent exceeded the allowable assessment/cleanup level, that constituent was analyzed in the next deeper sample interval.

Following installation of soil borings, White Drilling Company plugged each borehole per the specifications provided in the Well Plugging Plan and approved by the State of New Mexico Office of the State Engineer. Soil borings were plugged using a Type I/II cement-bentonite slurry per the specifications and tremied from the bottom of the borehole to the surface. A plugging record for soil boring SB-1 was provided to the State of New Mexico Office of the State Engineer. The plugging report for soil boring SB-1 is provided in **Appendix F**.

#### 4.2 Boring Installation and Soil Sample Methodology – April 2022

Prior to site assessment activities, a state line/utility locate (811) was conducted to notify utility companies to properly mark utilities in the radius of the work area. Altamira and Novo Oil & Gas also provided 48-hour notification to the NMOCD and BLM via email **(Appendix A)**. Altamira worked with pipeline companies to positively identify soil boring locations in relation to known pipelines and provided onsite supervision as necessary during soil boring installation.

Soil borings were installed by Envirotech Drilling Services using a combination of solid flight auger and air rotary drill methods. Soil samples were collected using a combination of stainless-steel split spoon sampling device and cuttings (dependent on lithology).

Soil samples were collected continuously from the surface to the total depth of each soil boring. Representative soil/rock from each one to two-foot interval was placed into a plastic bag, allowed to equilibrate and field screened with a photo-ionization detector (PID) for the presence of organic vapors. Soil samples were lithologically described and observations noted on soil boring logs **(Appendix D)**. Soil samples were collected and submitted for laboratory analysis from prescribed depths for each soil boring in one to two-foot sample intervals. Soil samples were placed in laboratory provided containers, labeled, and maintained/preserved on ice in an insulated cooler with chain-of-custody documentation.

Analysis of soil samples was performed on select depth intervals so that previously advanced shallow soil borings were extended and sampled deeper for vertical delineation of chlorides. If chloride concentrations exceeded the Assessment/Closure Criteria set forth 19.15.29 NMAC (600 mg/kg) then the constituent in the next deeper sample interval was also analyzed until vertical delineation was achieved. Soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis. Soil samples were collected and submitted for analysis for the following:

• Chlorides – EPA 4500-Cl-B

Soil borings were plugged using a Type I/II cement-bentonite slurry for the entire depth of each soil boring.

#### 4.3 Determination of Depth to Groundwater

Soil boring SB-1 was installed north of the point of release and was advanced to a depth of 50feet below ground surface. The purpose of advancing soil boring SB-1 to 50-feet was to determine if groundwater was present below 50-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed (refer to **Appendix D** – Boring Record SB-1). During advancement of soil boring SB-1, groundwater (saturation) was encountered at approximately 46.5 feet below ground surface. The borehole was advanced to 50 feet below ground surface and allowed to stay open for a period of time. The presence of groundwater was verified with an electronic water level probe.

Based on the lines of evidence provided above, groundwater appears to be shallower than 50feet below ground surface in the area of the release. Based on this site specific groundwater data, analytical data results will be compared to Closure Criteria for groundwater encountered at depths less than 50 feet below ground surface.

#### 5.0 DATA RESULTS & EVALUATION

Altamira utilized guidance from 19.15.29 NMAC, specifically *Table I - Closure Criteria for Soils Impacted by a Release* to assess soil sample analytical data collected at the Site.

The most stringent closure criteria action levels were utilized to evaluate analytical results for site soil assessment. Analytical results are provided on **Table 1** and Laboratory Analytical Data Report are provided in **Appendix G**.

#### 5.1 Chloride Results

Analytical results for chlorides within the release area ranged from <9.62 mg/kg to 14,700 mg/kg (**Table 1**). Chloride concentrations exceeded 600 mg/kg in soil samples at soil borings SB-2, SB-3, SB-5, SB-6, SB-7, SB-8, SB-9, SB-11, SB-12, SB-22, and SB-23. The approximate lateral extent of the chloride impacted soil is depicted on **Figure 4**. It appears that the produced water followed general topography within the release area and may have pooled in lower lying areas. It should also be noted that general lithology consisted of a mix of silt-sand and rock, which may have also aided in the infiltration of produced water to deeper soil intervals. Chloride impacts appeared the deepest at soil borings SB-2 (near point of release) and SB-8. Vertical delineation has been achieved for chlorides at each soil boring location.

Soil borings were installed radially outward from the known impact area. Soil sample data for chlorides for these soil borings generally show lateral delineation and lack of impacts in the shallower soil profile. Soil borings SB-1 and SB-13 show delineation of chlorides to the north and northwest of the release area. Soil borings SB-19 and SB-20 show lateral delineation of chlorides in the shallower soil intervals to the west of the release area. SB-10, SB-17, SB-18, and SB-21 show lateral delineation of chloride impacts to the southeast near SB-7 and SB-11. There is some lack of lateral delineation east of SB-8 and SB-23; and west/south/east of SB-5 and SB-22.

#### 5.2 TPH Results

TPH was analyzed on the initial shallowest soil sample from each soil boring. TPH was fractionated into the GRO/DRO/MRO ranges. For the purpose of assessment and in accordance with regulatory guidance, TPH concentrations were compared to an assessment level of 100 mg/kg. Analytical data results show total TPH concentrations above 100 mg/kg were present in soil samples SB-3 (0-1') and SB-3 (1-2') but attenuate to below 100 mg/kg in the 2-3' soil sample interval. Analytical results for TPH in all other soil samples show either low level concentrations of TPH below 100 mg/kg or non-detected concentrations below the laboratory reporting limit. Since TPH concentrations were below the applicable assessment level in all soil samples, analysis of TPH on deeper soil samples was not necessary. No further assessment of TPH should be necessary.

#### 5.3 BTEX Results

BTEX was analyzed on the initial shallowest soil sample from each soil boring. For the purpose of assessment and in accordance with regulatory guidance, benzene and total BTEX concentrations were compared to an assessment level of 10 mg/kg and 50 mg/kg, respectively. Analytical results show very low concentrations of benzene were detected only in soil samples SB-7 (0-1') and SB-8 (0-1') both of which were significantly below the 10 mg/kg assessment level. Benzene was not detected in any of the other soil samples submitted for laboratory analysis. BTEX concentrations were detected in soil samples from soil boring SB-7, SB-8, SB-11, SB-12, and SB-16; however, detected concentrations were below the applicable assessment level of 50 mg/kg. Total BTEX was not detected in any of the other soil samples submitted for laboratory analysis.

level in all soil samples, analysis of benzene and total BTEX on deeper soil samples was not necessary and screened from further assessment.

#### 6.0 CONCLUSIONS

Assessment activities have been conducted in accordance with NMAC 19.15.29. Novo Oil & Gas reported a produced water release of approximately 660 barrels based on the justification provided in Section 1.1. Novo was able to recover approximately 150 barrels of the released produced water. The release area was immediately marked using wooden stakes to delineate wet verses dry soils. A total of 23 soil borings have been installed for the vertical and lateral delineation of chlorides, TPH, benzene, and total BTEX. Analytical results do indicate chloride concentrations exceed the 600 mg/kg assessment level in shallow soils within the release area. Based on the analytical results for TPH, benzene and total BTEX, no further evaluation of TPH, benzene or total BTEX is necessary.

There are several areas where the lateral extent of chlorides from the release area are not well defined based on soil boring/sample data. The extent of chloride affected soil within an area containing numerous underground utilities and pipelines creates a physically complicated situation for assessment and remediation. Additionally, the presence of rock in the soil lithologic matrix does not allow for use of more non-invasive sampling methods (hand auger, dry-vac, and possibly hydrovac).

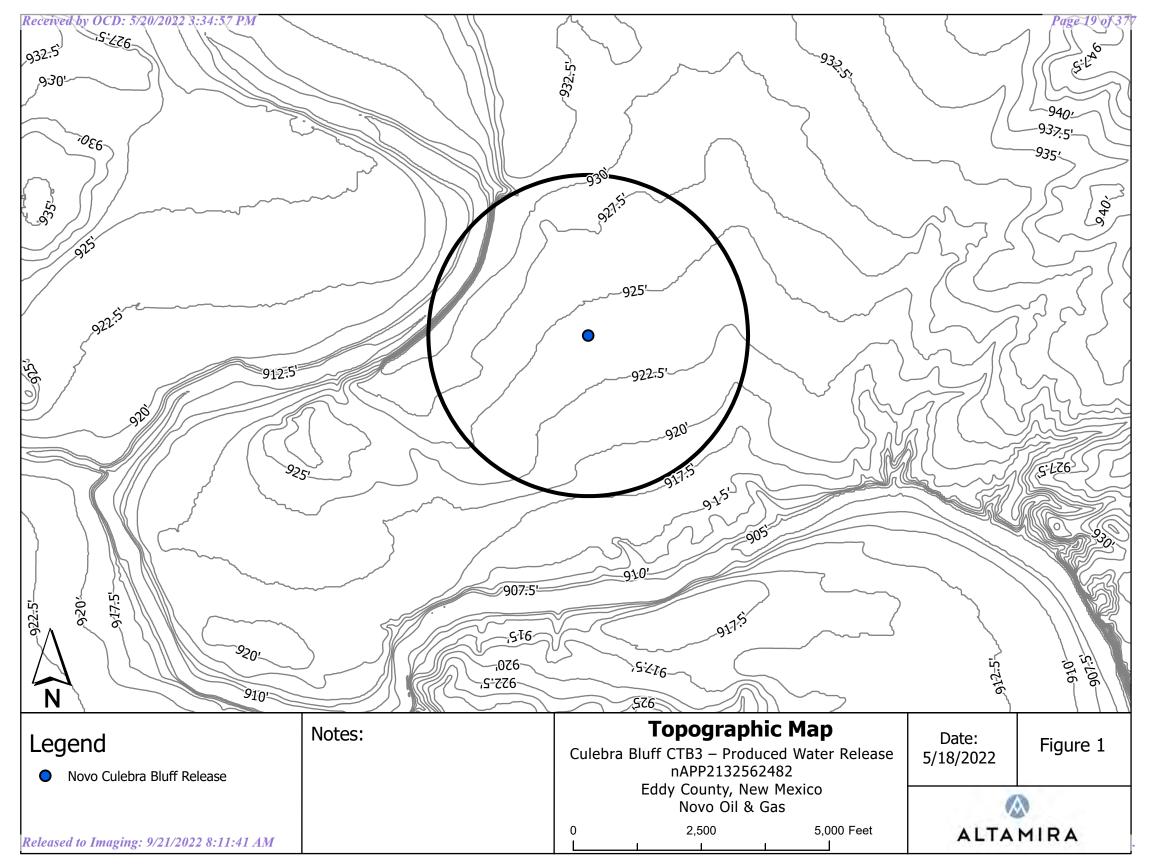
Following review and comment on this Assessment Report, Novo would welcome a meeting with the OCD and BLM to discuss possible remedies for the chloride impacts that range from the surface to near 13 feet below ground surface and recommendations on how to safely complete remedial activities. It may be feasible from a safety standpoint to remove the most chloride affected soils from the ground surface to 1-2 feet below ground surface in some areas; followed by addition of reagents to chemical bind the chlorides in place. However, full excavation and remediation is an unlikely remedy due to the safety concerns with the surrounding pipelines.

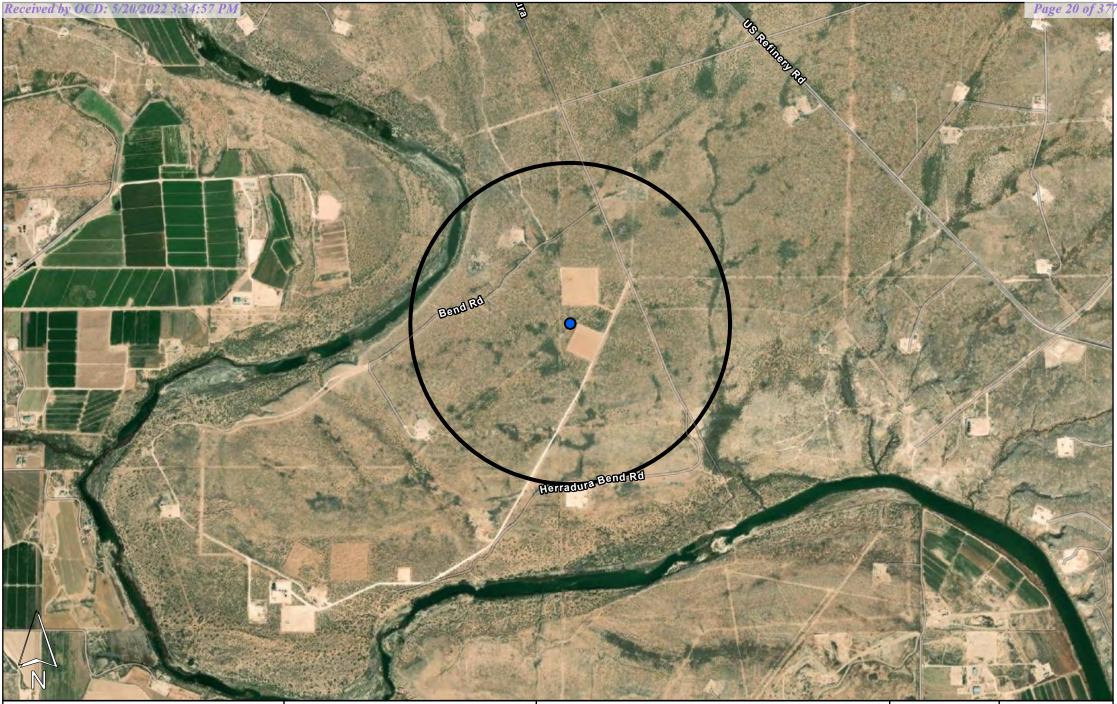
This assessment report will also be submitted to the BLM for their review and comment.



FIGURES

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<ul> <li>Legend</li> <li>Novo Culebra Bluff Release</li> </ul>	Notes:	nAPP2132562482		Figure 2		
		Ed	dy County, New Me Novo Oil & Gas			
Released to Imaging: 9/21/2022 8:11:41 AM		0	2,500	5,000 Feet	ALTA	MIRA

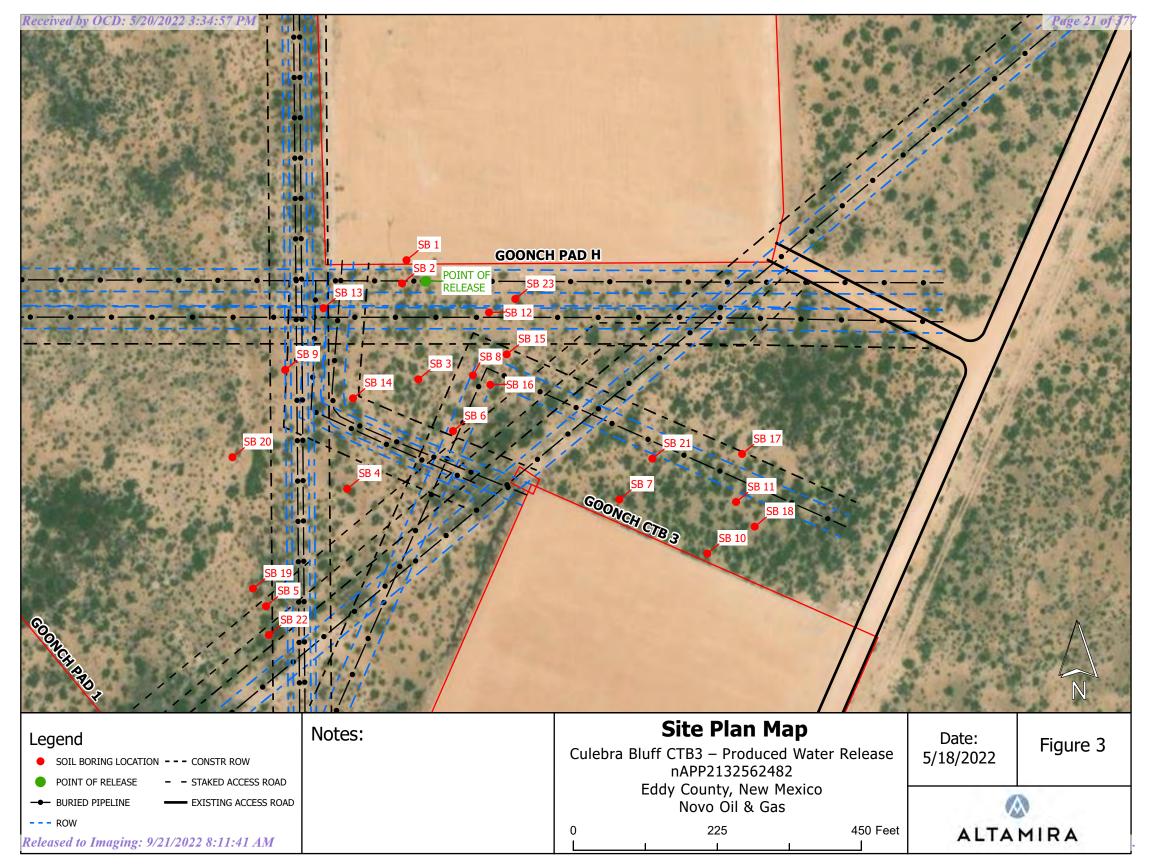




 TABLE 1

 Analytical Data Results Summary – Soil Assessment Samples (mg/kg)

#### Table 1 Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method		Chloride 300/4500-Cl-B	BTEX 8260B	Benzene 8260B	TPH (low) 8015D	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closu	re Criteria (0-4')	600	50	10	-	-	-	100
Sample ID	Sample Date							
Source Area S	oil Borings							
SB-2 (0-1')	1/25/2022	8,080	<0.00148	<0.00053	<0.616	33	54.5	87.5
SB-2 (2-3')	1/25/2022	3,570	<0.00155	<0.000556	<0.648	6.36	11.2	17.56
SB-2 (3-4')	1/25/2022	2,040						
SB-2 (4-5')	1/25/2022	2,290						
SB-2 (6-7')	1/25/2022	1,570						
SB-2 (8-9')	1/25/2022	2,380						
(SB-2 Resample	,	Fore						
SB-2 (1-2')	4/28/2022	5,360						
SB-2 (3-4')	4/28/2022	2,640						
SB-2 (6-7')	4/28/2022	2,920						
SB-2 (9-10')	4/28/2022	3,200						
SB-2 (11-12')	4/28/2022	3,520						
SB-2 (13-14')	4/28/2022	480						
SB-3 (0-1')	1/25/2022	3,510	<0.00162	<0.000581	<0.674	62.9	57.5	120.4
SB-3 (1-2')	1/25/2022	1,860	<0.00159	<0.000571	<0.663	94.6	77.1	171.7
SB-3 (2-3')	1/25/2022	205			0.755 (J)	14.5	7.76	23.015
. ,					.,			
SB-4 (0-1')	1/25/2022	11.2 (J)	<0.00141	<0.000506	<0.587	2.66 (J)	18.1	20.76
SB-4 (1-2')	1/25/2022	19 (J)	<0.00143	<0.000514	<0.598	3.5 (J)	9.92	13.42
SB-5 (0-1')	1/25/2022	5,620	<0.00154	<0.000552	<0.641	3.58 (J)	13.8	17.38
SB-5 (1-1.5')	1/25/2022	6,120	<0.00164	<0.00059	<0.685	5.87	19.5	25.37
SB-5 (3-4')	4/28/2022	1,800						
SB-5 (4-5')	4/28/2022	1,060						
SB-5 (6-7')	4/28/2022	768						
SB-5 (8-9')	4/28/2022	320						
SB-6 (0-1')	1/25/2022	1,270	<0.00156	<0.00056	<0.651	4.1 (J)	24.8	28.9
SB-6 (1-2')	1/25/2022	1,440	<0.00154	<0.000554	<0.644	3.47 (J)	18.4	21.87
SB-6 (3-4')	4/28/2022	1,060						
SB-6 (4-5')	4/28/2022	1,170						
SB-6 (6-7')	4/28/2022	416						
SB-6 (8-9')	4/28/2022	128						
SB-7 (0-1')	1/25/2022	3,300	0.000706 (J)	0.000706 (J)	<0.717	2.94	11.9	14.84
SB-7 (1-2')	1/25/2022	1,160	<0.00172	<0.000617	<0.717	<1.87	6.14	6.14
		.,	0.00172	0.000017	<b>.</b>		<b>-</b>	

#### Table 1 Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method		Chloride 300/4500-CI-B	BTEX 8260B	Benzene 8260B	TPH (low) 8015D	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closur	e Criteria (0-4')	600	50	10	-	-	-	100
SB-7 (3-4')	4/28/2022	480						
SB-8 (0-1')	1/25/2022	14,700	0.011414 (J)	0.000734 (J)	<0.706	14.2	30.9	45.1
SB-8 (2-3')	4/28/2022	3,280						
SB-8 (3-4')	4/28/2022	2,320						
SB-8 (4-5')	4/28/2022	3,000						
SB-8 (8-9')	4/28/2022	864						
SB-8 (10-11')	4/28/2022	768						
SB-8 (12-13')	4/28/2022	208						
SB-9 (0-1')	1/25/2022	5,360	<0.00222	<0.000797	<0.926	3.35 (J)	5.68	9.03
SB-9 (1-2')	1/25/2022	4,110	<0.00182	<0.000653	<0.759	6.02	32.7	38.72
SB-9 (2-2.5')	1/25/2022	3,350						
SB-9 (3-4')	4/27/2022	1,400						
SB-9 (4-5')	4/27/2022	64						
SB-10 (0-1')	1/25/2022	39.7	<0.00188	<0.000676	<0.785	2.15 (J)	12	14.15
SB-10 (1-2')	1/25/2022	46	<0.00164	<0.000591	<0.687	3.04 (J)	19.2	22.24
SB-11 (0-1')	1/25/2022	5,980	0.00271 (J)	<0.000648	0.899 (J)	2.47 (J)	11.6	25.72
SB-11 (1-2')	1/25/2022	4,740	0.00157 (J)	<0.000654	<0.76	3.38 (J)	15.7	19.08
SB-11 (2-3')	1/25/2022	3,520						
SB-11 (3-4')	1/25/2022	2,740						
SB-11 (4-5')	4/28/2022	800						
SB-11 (6-7')	4/28/2022	1,140						
SB-11 (8-9')	4/28/2022	528						
SB-11 (10-11')	4/28/2022	592						
SB-12 (0-1')	1/26/2022	3,840	0.00135 (J)	<0.000524	<0.610	16.4	32.6	49
SB-12 (1-2)	4/28/2022	6,960						
SB-12 (2-3')	4/28/2022	3,800						
SB-12 (3-4')	4/28/2022	544						
Lateral Delinea	tion Soil Borings							
SR 1 (0 1')	1/25/2022	64.4	<0.00147	<0.000507	<0 610	~1.60	A 97	A 27
SB-1 (0-1') SB-1 (2-3')	1/25/2022	64.4		<0.000527	< 0.612	<1.68	4.37	4.37
50-1 (2-3)	1/25/2022	162	<0.00155	<0.000558	<0.648	15.3	47.3	62.6
SB-13 (0-1')	1/26/2022	18.7	<0.00186	<0.000667	<0.774	<1.67	7.97	7.97
SB-13 (1-2')	1/26/2022	24.5	<0.00152	<0.000545	<0.635	3.2 (J)	17.1	20.3
SB-13 (3-4')	1/26/2022	234						
SB-14 (0-1')	1/26/2022	11.6 (J)	<0.00139	<0.000499	<0.579	1.68 (J)	11.1	12.78

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#### Table 1

#### Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method		Chloride 300/4500-Cl-B	BTEX 8260B	Benzene 8260B	TPH (low) 8015D	8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closu	re Criteria (0-4')	600	50	10	-	-	-	100
SB-15 (0-1')	1/26/2022	13.7 (J)	<0.00142	<0.00051	<0.593	2.07 (J)	13.4	15.47
SB-15 (1-2')	1/26/2022	12.9 (J)	<0.00142	<0.00051	<0.593	2.04 (J)	14.2	16.24
SB-16 (0-1')	1/26/2022	28	0.00137 (J)	<0.000486	<0.565	2.91 (J)	18.2	21.11
SB-17 (0-1')	1/26/2022	15.8 (J)	<0.0015	<0.00054	<0.629	<1.69	10.9	10.9
SB-17 (1-2')	1/26/2022	12.3 (J)	<0.00148	<0.000532	<0.619	<1.71	11	11
SB-17 (2-3')	1/26/2022	<9.77						
SB-18 (0-1')	1/26/2022	25.5	<0.00155	<0.000557	<0.647	3.03 (J)	15.1	18.13
SB-18 (1-2')	1/26/2022	12.8 (J)	<0.00163	<0.000584	<0.680	2.21 (J)	9.26	11.47
SB-18 (2-3')	1/26/2022	12.5 (J)						
SB-18 (4-5')	4/28/2022	128						
SB-18 (6-7')	4/28/2022	496						
SB-19 (0-1')	1/26/2022	15.5 (J)	<0.00142	<0.000511	<0.593	2.87 (J)	19.7	22.57
SB-20 (0-1')	1/26/2022	<9.62	<0.00142	<0.00051	<0.592	<1.68	32.4	32.4
SB-20 (1-2')	1/26/2022	10.1 (J)	<0.00142	<0.000509	<0.591	<1.68	8.04	8.04
SB-21 (0-1')	1/26/2022	14.9 (J)	<0.00148	<0.00053	<0.616	2.15 (J)	16.8	18.95
SB-21 (1-2')	1/26/2022	16.4 (J)	<0.00143	<0.000515	<0.599	<1.69	13.2	13.2
SB-22 (0-1')	4/28/2022	4,160						
SB-22 (2-3')	4/28/2022	3,080						
SB-22 (3-4')	4/28/2022	2,720						
SB-22 (6-7')	4/28/2022	64						
SB-22 (8-9')	4/28/2022	240						
	4/00/0000	0.000						
SB-23 (0-1')	4/28/2022	6,880						
SB-23 (2-3') SB-23 (3-4')	4/28/2022	4,320 400						
00-20 (0-4 )	4/20/2022	400						

Notes:

All results are in mg/kg

Closure Criteria Soils - Table I of 19.15.29.12 NMAC

TPH - Total Petroleum Hydrocarbons - includes GRO, DRO, MRO

BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

< number is the SDL (not detected above the sample detection limit)

J - result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value

Bold indicates that a COC was detected

Shading indicates that a detected result exceeded the NMOCD Table 1 Closure Criteria Levels



**APPENDIX A** Notification and Agency Correspondence 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

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Incident ID	nAPP2132562482
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party: Novo Oil & Gas Northern Delaware, LLC	OGRID
Contact Name: Kurt A. Shipley	Contact Telephone: 405-286-3916
Contact email: kshipley@novoog.com	Incident # (assigned by OCD): nAPP2132562482
Contact mailing address: 1001 West Wilshire Blvd., Suite 206 Oklahoma City, OK 73116	

## **Location of Release Source**

Latitude <u>32.34103</u>

Longitude <u>-104.084188</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Culebra Bluff CTB3 (before San Mateo Meter)	Site Type: Produced Water Line (production)
Date Release Discovered: 11/20/2021 at 1:00am	API# (if applicable)

Unit Letter	Section	Township	Range	County
А	4	T23S	R28E	Eddy

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 660	Volume Recovered (bbls): 150
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	ent produced water pipeline occurred at camel ba ed water: 17,000 bbl/day = 708 bbl/hour = 12 bbl/i se for 55 minutes	
Volume: 12 bbl/min X 55 minutes = 660 bbls (27,720 gallons) estimated to have been released		

#### Oil Conservation Division

	Page 29cof 37
Incident ID	nAPP2132562482
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Calculated volume of the release was 660 bbls of produced water, which is greater than the 25 bbl threshold defining a major release.
🛛 Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notification was provided by Kurt Shipley on November 20, 2021 at 2:00pm by phone. Notification was made to the NMOCD – Artesia Office (575.703.3842). A recorded message was provided on the hotline voicemail (a specific person did not answer). Bryan Haney with Altamira-US (on behalf of Novo Oil & Gas Northern Delaware, LLC.) submitted notification of a release (NOR) on the online OCD system on November 21, 2021.

## **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

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

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

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

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

All actions above have been completed.

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: Kurt A. Shipley	Title: Chief Operating Officer
Signature:	Date: December 2, 2021
email: <u>kshipley@novoog.com</u>	Telephone: 405-286-3916
OCD Only Jocelyn Harimon Received by:	04/12/2022 Date:

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	64652
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By Condition Condition Date 4/12/2022 jharimon None

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Action 64652



# United States Department of Interior Bureau of Land Management Major Undesirable Event Report<sup>1</sup>

ATTACHMENT 2

Report Type:       Initial 24-Hour X       15-Day/Final □       Other/Follow-up □         BLM Field Office:       Carlsbad       State:       New Mexico         BLM Contact:       Date of this Report:       11-20-2021         Company Official Reporting to BLM:       Kurt Shipley (Chief Operating Officer)       Operator:         Operator:       Novo Oil & Gas Northern Delaware, LLC       Date/Time of Occurrence:       11-20-2021 at         Date/Time of Occurrence:       11-20-2021 at       1:00am       Date/Time BLM Notified:       11-20-2021 at         State:       NM       County:       Eddy       Twp:       T22S       Rng:       R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188	NE
BLM Contact:       Date of this Report: 11-20-2021         Company Official Reporting to BLM: Kurt Shipley (Chief Operating Officer)       Operator: Novo Oil & Gas Northern Delaware, LLC         Date/Time of Occurrence: 11-20-2021 at 1:00am       Date/Time BLM Notified: 11-20-2021 at 1:00am         Field/Unit Name: Purple Sage - Wolfcamp       Lease Number: NMNM13233         State: NM       County: Eddy       Twp: T22S       Rng: R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188       Federal: X       Indian: □       State: □       FEE □         Type and Relevant Details of Event         Oil Spill □       Oil/Water Spill □       Gas Venting□       Toxic Fluid Spi         Saltwater Spill X       Other Spill (Specific) □       Blowout □       Fire □         Injury □       Fatality □       Property Damage □       Explosion □         Nature and Cause of Event:       Permanent produced water pipeline break at camel back riser above ground.       Environmental Impact:         Approximately 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft       90 minutes	NE
Company Official Reporting to BLM: Kurt Shipley (Chief Operating Officer)         Operator: Novo Oil & Gas Northern Delaware, LLC         Date/Time of Occurrence: 11-20-2021 at 1:00am       Date/Time BLM Notified: 11-20-2021 at         Field/Unit Name: Purple Sage - Wolfcamp       Lease Number: NMNM13233         State: NM       County: Eddy       Twp: T22S       Rng: R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188	NE
Operator:       Novo Oil & Gas Northern Delaware, LLC         Date/Time of Occurrence:       11-20-2021 at 1:00am       Date/Time BLM Notified:       11-20-2021 at         Field/Unit Name:       Purple Sage - Wolfcamp       Lease Number:       NMNM13233         State:       NM       County:       Eddy       Twp:       T22S       Rng:       R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188       Federal:       X       Indian:       State:       FEE       FEE         Surface       Ownership:       Federal       Federal:       X       Indian:       State:       FEE       FEE         Oil Spill       Oil/Water Spill       Gas Venting       Toxic Fluid Spi         Saltwater Spill X       Other Spill (Specific)       Blowout       Fire       Fire         Injury       Fatality       Property       Damage       Explosion       Surface or of 100 feet by 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft	NE
Date/Time of Occurrence: 11-20-2021 at 1:00am       Date/Time BLM Notified: 11-20-2021 at 1:00am         Field/Unit Name: Purple Sage - Wolfcamp       Lease Number: NMNM13233         State: NM       County: Eddy       Twp: T22S       Rng: R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188       Twp: T22S       Rng: R28E       Sec: 4       Qtr:         Surface Ownership: Federal       Federal: X       Indian: □       State: □       FEE □         Type and Relevant Details of Event         Oil Spill □       Oil/Water Spill □       Gas Venting□       Toxic Fluid Spill         Saltwater Spill X       Other Spill (Specific) □       Blowout □       Fire □         Injury □       Fatality □       Property Damage □       Explosion □         Nature and Cause of Event:       Permanent produced water pipeline break at camel back riser above ground.       Environmental Impact:         Approximately 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft       90 minutes	NE
Field/Unit Name:       Purple Sage - Wolfcamp       Lease Number:       NMNM13233         State:       NM       County:       Eddy       Twp:       T22S       Rng:       R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188	NE
State: NM       County: Eddy       Twp: T22S       Rng: R28E       Sec: 4       Qtr:         Lat 32.34103, Long -104.084188       Federal: X       Indian: □       State: □       FEE □         Surface Ownership: Federal       Federal: X       Indian: □       State: □       FEE □         Oil Spill □       Oil/Water Spill □       Gas Venting□       Toxic Fluid Spill Spill □       Fire □         Saltwater Spill X       Other Spill (Specific) □       Blowout □       Fire □         Injury □       Fatality □       Property Damage □       Explosion □         Nature and Cause of Event:       Permanent produced water pipeline break at camel back riser above ground.       Environmental Impact:         Approximately 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft       90 minutes	
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Surface Ownership: FederalFederal: XIndian: $\Box$ State: $\Box$ FEE $\Box$ Type and Relevant Details of EventOil Spill $\Box$ Oil/Water Spill $\Box$ Gas Venting $\Box$ Toxic Fluid Spill Spill Spill Spill Spill $\Box$ Saltwater Spill XOther Spill (Specific) $\Box$ Blowout $\Box$ Fire $\Box$ Injury $\Box$ Fatality $\Box$ Property Damage $\Box$ Explosion $\Box$ Nature and Cause of Event: Permanent produced water pipeline break at camel back riser above ground.Environmental Impact: Approximately 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft90 minutes	
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Environmental Impact: Approximately 500 bbls saltwater spilled to the pipeline ROW. Approximate affected an area or of 100 feet by 500 ft Time Required to Control Event (Hours) : 90 minutes	
	ROW
Volume Discharged or Consumed: OIL: bbls WATER: 500 bbls GAS:	mcf
Volumes Recovered:   OIL: bbls   WATER: 150 bbls	
Net Volume Lost:   OIL: bbls WATER: 350 bbls	
Action Taken to Control Event: Removed 150 bbls of free standing water with vacuum truck. Marea. Taking photos. Left message with BLM Spill Hotline. Resulting Damage: None.	arking
Clean-Up Procedures: Pending.	
Cause/Extent of Personal Injury: None.	
Actions the operator has taken or will take to prevent a recurrence of the incident: Repaired line. Emergency shut off valves.	
Agency Notification Agency Name Contact Name Date/Tim	
List: BLM – Carlsbad Left message 11-20-2021 2:00	
(Federal/State/Local): NMOCD Left message 11-20-2021 2:00	

<sup>&</sup>lt;sup>1</sup> As required per *Section III*, NTL-3A, Federal Register Notice Vol. 44-No. 7, Wednesday, January 10, 1979, [NTL-3A] Reporting Of Undesirable Events, Notice to Lessees and Operators; P. 2204-2206

Remarks: Include available Major Undesirable Events (MUE) history (attach additional sheet, if needed) for the past 3 years of the same well. Include pictures, if available

.

From:	Hamlet, Robert, EMNRD
To:	Bryan Haney
Cc:	<u>Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD</u>
Subject:	RE: [EXTERNAL] Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce Water Release - Update and Request for Review and Discussion
Date:	Monday, February 28, 2022 11:55:13 AM
Attachments:	image003.png

RE: Incident #NAPP2132562482

#### Bryan,

Your request for an extension to **May 20th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Contaminated soil can be safely removed with shovels and/or a hydrovac. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. Use rotary drill to drill 18"-24" hole into the rock, pull sample and do lab analysis. If clean, layer clean rock with microbial strains to digest organics and hydrocarbons. Back-fill with clean material. A deferral can only be granted on a wellpad. If a release occurs off pad in the pasture area, the area must be reclaimed immediately.

If you still feel a further discussion is necessary, please schedule a meeting (preferably on Tuesday/Wednesday afternoon) with all CC'd environmental specialists including Brad Billings <u>Bradford.Billings@state.nm.us</u>

Regards,

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney <Bryan.Haney@Altamira-us.com>
Sent: Friday, February 18, 2022 4:32 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD
<mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hensley,
Chad, EMNRD <Chad.Hensley@state.nm.us>
Subject: [EXTERNAL] Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce Water
Release - Update and Request for Review and Discussion

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

Rob, Mike, Jennifer, and Chad,

Novo conducted soil assessment activities at the above site location during the week of January 25, 2022. During the soil investigation, a total of 21 soil borings were installed for the purpose of assessing the lateral and vertical extent of potential impacts to soil as a result of the November 20, 2021 release. Upon arrival to the site location, it was discovered that multiple pipeline companies and utilities are installing pipelines and utilities within the main footprint of the release area (between the two pad areas). As a results, we were only able to safely use the drill rig at two locations. The remaining soil borings were advanced using a hand auger. The soil matrix in this area consists of a mixture of unconsolidated soil and rock which prohibited advancement of many soil borings to depth.

I have attached a site plan showing the soil boring locations and outline of the affected soil area (based on visual and confirmed with analytical data results). Also attached is the current analytical data summary table. As you will notice chlorides are the main constituent of concern in the shallow soil profile.

The affected release area is physically located between the Novo Well Pad Area (to the north) and the Novo production/process area (to the south). As mentioned above, this area between the two pads contains numerous underground pipelines, water lines, and utilities that transect the entire release area. The current Google Earth view does not yet depict this activity, but several photos are attached that may help show the complexity of the area.

The recent development of the land located in the same footprint as the release area has resulted in the inability to safely conduct remediation activities. Under 19.15.29.12 C. (2), the regulation indicates that *"if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration, and reclamation may be deferred with division written approval until the equipment is removed during other operations, abandoned, or whichever comes first".* 

Additionally, there is a significant safety concern conducting any soil excavation/removal in this area while active pipelines and utilities are in place.

Novo would like to discuss the site conditions and assessment further with the commission and work towards a deferred plan for remediation, restoration and reclamation. Please also note that the 90-day period started on November 20, 2021 and would be up on February 20, 2022. Novo would like to request an extension of time so that Novo can work with the commission on plans moving forward and ensure regulatory compliance.

Please let Kurt Shipley and myself know when we can set up a call or meeting to review the project and options moving forward. Please also let us know about the request for extension so that we remain in compliance while finalizing a path forward with the commission. If you have any questions or would like any further information in the meantime, please let us know.

Thank you for your assistance on this project,

From:	Hamlet, Robert, EMNRD
To:	Bryan Haney
Cc:	Kurt Shipley; Dara Tatum; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Denied) Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce Water Release
Date:	Monday, May 16, 2022 9:01:11 AM
Attachments:	image003.png

RE: Incident #NAPP2132562482

#### Bryan,

An extension for this release has already been granted. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney < Bryan. Haney@Altamira-US.com>

Sent: Friday, May 13, 2022 11:24 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

**Cc:** Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez,

Nelson, EMNRD <Nelson.Velez@state.nm.us>; Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>

**Subject:** RE: [EXTERNAL] Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce Water Release - Update and Request for Time Extension

RE: Incident #**NAPP2132562482** 

Rob,

Novo and Altamira are actively working to complete soil assessment activities at the Novo Culebra Bluff CTB3 site. We were able to safely install additional soil borings to help with assessing the general extent of chloride impacts. We are working with the lab on analysis of deeper sample intervals to obtain vertical delineation. It is possible that the extensive activities associated with pipeline and utility installations within the release footprint may have resulted in mixing of chloride affected soil. Novo and Altamira anticipate completing the Soil Assessment Report and working on various options on remediation of chlorides. The current extension granted was through May 20, 2022. We are requesting an additional extension in order to complete lab analysis, prepare assessment report, and evaluate possible remedies. We are still in a situation where active mass remediation of affected soils may not be safely or physically possible due to the numerous underground pipelines and utilities that traverse the release area.

We would like to request a 90 day extension from May 20, 2022. I suspect we will have the assessment report to the agency earlier than this. Following submittal of the assessment report and options analysis, Novo and Altamira would likely need to schedule a meeting with the OCD to discuss the options and feasible extent of ability to remediate.

I have attached our current site plan for your review.

Thank you, Bryan

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | Bryan.Haney@altamira-us.com altamira-us.com



From: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Sent: Monday, February 28, 2022 11:55 AM
To: Bryan Haney <<u>Bryan.Haney@Altamira-US.com</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Nobui, Jennifer, EMNRD
<<u>Jennifer.Nobui@state.nm.us</u>>; Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Velez,
Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Subject: RE: [EXTERNAL] Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce
Water Release - Update and Request for Review and Discussion

RE: Incident #**NAPP2132562482** 

#### Bryan,

Your request for an extension to **May 20th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Contaminated soil can be safely removed with shovels and/or a hydrovac. If rock refusal is

encountered, use hydrovac to clean contaminated soil off rock. Use rotary drill to drill 18"-24" hole into the rock, pull sample and do lab analysis. If clean, layer clean rock with microbial strains to digest organics and hydrocarbons. Back-fill with clean material. A deferral can only be granted on a wellpad. If a release occurs off pad in the pasture area, the area must be reclaimed immediately.

If you still feel a further discussion is necessary, please schedule a meeting (preferably on Tuesday/Wednesday afternoon) with all CC'd environmental specialists including Brad Billings <u>Bradford.Billings@state.nm.us</u>

Regards,

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>> Sent: Friday, February 18, 2022 4:32 PM To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>> Subject: [SYTERNAL] Incident nADD21225 (2002). Nave Oil & Cae Culobre Diuff (TD2 Dreduce Wate

**Subject:** [EXTERNAL] Incident nAPP2132562482 - Novo Oil & Gas Culebra Bluff CTB3 Produce Water Release - Update and Request for Review and Discussion

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

Rob, Mike, Jennifer, and Chad,

Novo conducted soil assessment activities at the above site location during the week of January 25, 2022. During the soil investigation, a total of 21 soil borings were installed for the purpose of assessing the lateral and vertical extent of potential impacts to soil as a result of the November 20, 2021 release. Upon arrival to the site location, it was discovered that multiple pipeline companies and utilities are installing pipelines and utilities within the main footprint of the release area (between the two pad areas). As a results, we were only able to safely use the drill rig at two locations. The remaining soil borings were advanced using a hand auger. The soil matrix in this area consists of a mixture of unconsolidated soil and rock which prohibited advancement of many soil borings to depth.

I have attached a site plan showing the soil boring locations and outline of the affected soil

area (based on visual and confirmed with analytical data results). Also attached is the current analytical data summary table. As you will notice chlorides are the main constituent of concern in the shallow soil profile.

The affected release area is physically located between the Novo Well Pad Area (to the north) and the Novo production/process area (to the south). As mentioned above, this area between the two pads contains numerous underground pipelines, water lines, and utilities that transect the entire release area. The current Google Earth view does not yet depict this activity, but several photos are attached that may help show the complexity of the area.

The recent development of the land located in the same footprint as the release area has resulted in the inability to safely conduct remediation activities. Under 19.15.29.12 C. (2), the regulation indicates that *"if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration, and reclamation may be deferred with division written approval until the equipment is removed during other operations, abandoned, or whichever comes first".* 

Additionally, there is a significant safety concern conducting any soil excavation/removal in this area while active pipelines and utilities are in place.

Novo would like to discuss the site conditions and assessment further with the commission and work towards a deferred plan for remediation, restoration and reclamation. Please also note that the 90-day period started on November 20, 2021 and would be up on February 20, 2022. Novo would like to request an extension of time so that Novo can work with the commission on plans moving forward and ensure regulatory compliance.

Please let Kurt Shipley and myself know when we can set up a call or meeting to review the project and options moving forward. Please also let us know about the request for extension so that we remain in compliance while finalizing a path forward with the commission. If you have any questions or would like any further information in the meantime, please let us know.

Thank you for your assistance on this project,

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | altamira-us.com



From:	Bryan Haney
To:	<u>Jim Amos (jamos@blm.gov)</u>
Subject:	FW: NMOCD Incident ID nAPP2132562482 Notification C-141 - Notification of Upcoming Field Assessment
Date:	Thursday, January 20, 2022 1:06:00 PM
Attachments:	image001.png Novo MUE Report 11.20.2021.docx nAPP2132562482C-141 Initial Notification 12-02-2021.pdf

Hi Jim,

I am providing notification to the BLM of field assessment activities at the above site starting on Tuesday January 25<sup>th</sup>. We plan to install approximately 25 soil borings to 15 feet and collection of soil samples for analysis of chlorides, TPH, and BTEX. If you have any questions please let me know.

Thank you,

Bryan

## Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com



From: Bryan Haney
Sent: Monday, December 13, 2021 10:40 AM
To: blm\_nm\_cfo\_spill@blm.gov; Jim Amos (jamos@blm.gov) <jamos@blm.gov>
Cc: Kurt Shipley <kshipley@novoog.com>
Subject: NMOCD Incident ID nAPP2132562482 Notification C-141 Submittal

Attached is the NMOCD C-141 for the above referenced site for your records. Novo has already submitted the MUE Report to the BLM (also attached).

If you need any further information please let us know. We will keep the BLM notified and updated on progress regarding this incident.

Thank you

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | altamira-us.com



From:	Bryan Haney		
To:	Hamlet, Robert, EMNRD		
Cc:	Marcus, Ramona, EMNRD; Kurt Shipley		
Subject:	Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482		
Date:	Thursday, January 20, 2022 1:18:00 PM		
Attachments:	Novo MUE Report 11.20.2021.docx		
	image001.png		
	nAPP2132562482C-141 Initial Notification 12-02-2021.pdf		

Rob,

I am providing the 48-hour notification of field activities for the above site. We will be conducting the assessment starting January 25-26<sup>th</sup>. I tried contacting the Artesia office, but it was disconnected. Please let me know if there is another number or if I need to let anyone else know.

Scope of work will be installation of 25 soil borings to 15 feet and collection of soil samples for analysis of chlorides, BTEX, and TPH.

Thanks for your help,

Bryan

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | altamira-us.com



From:	Bryan Haney			
To:	Tucker, Shelly J			
Cc:	Kurt Shipley			
Subject:	FW: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482			
Date:	Tuesday, April 19, 2022 4:48:00 PM			
Attachments:	Scope of Work Detail - NOVO Prod Water Release - 4-19-2022.docx			
	image001.png			
	Proposed Soil Boring Location Map - Additional Soil Assessment 4-19-2022.pdf			
	Novo MUE Report 11.20.2021.docx			
	nAPP2132562482C-141 Initial Notification 12-02-2021.pdf			
	GOONCH WELLPAD H I AND CTB 3 PRODUCED WATER RELEASE.pdf			

Hi Shelly,

Attached is a work plan and figure showing proposed soil boring locations for additional soil assessment at this site. I have also attached the initial notification to the BLM following the release for your reference. <u>Please accept this as the 48-hour notification to the BLM of soil assessment activities.</u> If you have any questions or would like additional information please let us know.

FYI, this site location is going to be very challenging due to the numerous underground utilities/pipelines that have recently been installed. Our plan is to complete the assessment to the best of our ability – safely and then submit an assessment report with some recommendations on possible remediation of the chlorides (which may be limited).

Thanks again, Bryan

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | Bryan.Haney@altamira-us.com

altamira-us.com



From: Bryan Haney < Bryan.Haney@Altamira-US.com>

Sent: Tuesday, April 19, 2022 4:39 PM

To: Bryan Haney <Bryan.Haney@Altamira-US.com>; Hamlet, Robert, EMNRD

<Robert.Hamlet@state.nm.us>

**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; jennifer.nobui@state.nm.us; Hensley,

Chad, EMNRD <Chad.Hensley@state.nm.us>; Kurt Shipley <kshipley@novoog.com>

**Subject:** RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482

Rob,

Novo is attempting to conduct additional soil assessment at the above mentioned site location. The

focus will be delineation of chlorides (based on the previous soil assessment). We plan to start assessment on April 27<sup>th</sup> and expect this to take one day to complete assessment activities. Attached is our general scope of work and site plan for reference.

Please accept this as our 48-hour notification of field assessment activities.

Thank you,

Bryan

### Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

<u>altamira-us.com</u>



From: Bryan Haney <Bryan.Haney@Altamira-us.com>
Sent: Friday, January 21, 2022 12:04 PM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; jennifer.nobui@state.nm.us; Hensley,
Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

Rob,

I am resending yesterdays notification per your instructions below. I also called the Artesia office and left a message with Laura. Let me know if you have any questions.

#### SENT January 20, 2021

I am providing the 48-hour notification of field activities for the above site. We will be conducting the assessment starting January 25-26<sup>th</sup>. I tried contacting the Artesia office, but it was disconnected. Please let me know if there is another number or if I need to let anyone else know.

Scope of work will be installation of 25 soil borings to 15 feet and collection of soil samples for analysis of chlorides, BTEX, and TPH.

Thanks for your help,

Bryan

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com



From: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Sent: Friday, January 21, 2022 11:39 AM
To: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

Bryan,

You can call or email your notification. Sometimes we are on the phone or in meetings, so you can email us. Please make sure Mike Bratcher, Myself, Chad Hensley, Jennifer Nobui are included on any email notification.

Thanks

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>
Sent: Friday, January 21, 2022 10:26 AM
To: Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@state.nm.us</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>
Subject: BE: [EXTERNAL] Novo Culabra Pluff Sail Accessment Activities \_ 48 Hour Natificatio

**Subject:** RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482

Thank you, I will call them now.

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | altamira-us.com



From: Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>
Sent: Friday, January 21, 2022 11:25 AM
To: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@state.nm.us</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

Dear Mr. Haney,

The following link will take you to a contact list: <u>Contact Us - Oil Conservation</u> (<u>nm.gov</u>)

The telephone number for the Artesia Office is (505) 629-6116.

Have a good weekend when it comes.

Ramona

Ramona Lopez Marcus • Program Coordinator Project Management Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 505.470.3044 | <u>Ramona.Marcus@state.nm.us</u> http:// www.emnrd.nm.gov



From: Bryan Haney <Bryan.Haney@Altamira-us.com>
Sent: Thursday, January 20, 2022 12:18 PM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Cc: Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>; Kurt Shipley
<<u>kshipley@novoog.com</u>>
Subject: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

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

Rob,

I am providing the 48-hour notification of field activities for the above site. We will be conducting the assessment starting January 25-26<sup>th</sup>. I tried contacting the Artesia office, but it was disconnected. Please let me know if there is another number or if I need to let anyone else know.

Scope of work will be installation of 25 soil borings to 15 feet and collection of soil samples for analysis of chlorides, BTEX, and TPH.

Thanks for your help,

Bryan

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com



From:	Hamlet, Robert, EMNRD
To:	Bryan Haney
Cc:	Kurt Shipley; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482
Date:	Wednesday, April 20, 2022 10:26:38 AM
Attachments:	image003.png

Bryan,

Thank you for the notification on field work and assessment activities. 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.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney <Bryan.Haney@Altamira-US.com>
Sent: Tuesday, April 19, 2022 3:39 PM
To: Bryan Haney <Bryan.Haney@Altamira-US.com>; Hamlet, Robert, EMNRD
<Robert.Hamlet@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Kurt Shipley
<kshipley@novoog.com>

**Subject:** RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482

Rob,

Novo is attempting to conduct additional soil assessment at the above mentioned site location. The focus will be delineation of chlorides (based on the previous soil assessment). We plan to start assessment on April 27<sup>th</sup> and expect this to take one day to complete assessment activities. Attached is our general scope of work and site plan for reference.

Please accept this as our 48-hour notification of field assessment activities.

Thank you,

Bryan

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Bryan.Haney@altamira-us.com

altamira-us.com



From: Bryan Haney <Bryan.Haney@Altamira-us.com>
Sent: Friday, January 21, 2022 12:04 PM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; jennifer.nobui@state.nm.us; Hensley,
Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

Rob,

I am resending yesterdays notification per your instructions below. I also called the Artesia office and left a message with Laura. Let me know if you have any questions.

#### SENT January 20, 2021

I am providing the 48-hour notification of field activities for the above site. We will be conducting the assessment starting January 25-26<sup>th</sup>. I tried contacting the Artesia office, but it was disconnected. Please let me know if there is another number or if I need to let anyone else know.

Scope of work will be installation of 25 soil borings to 15 feet and collection of soil samples for analysis of chlorides, BTEX, and TPH.

Thanks for your help,

Bryan

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | <u>altamira-us.com</u>



From: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Sent: Friday, January 21, 2022 11:39 AM
To: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482

Bryan,

You can call or email your notification. Sometimes we are on the phone or in meetings, so you can email us. Please make sure Mike Bratcher, Myself, Chad Hensley, Jennifer Nobui are included on any email notification.

Thanks

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>
Sent: Friday, January 21, 2022 10:26 AM
To: Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@state.nm.us</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>

**Subject:** RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification - nAPP2132562482

Thank you, I will call them now.

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com



From: Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>
Sent: Friday, January 21, 2022 11:25 AM
To: Bryan Haney <<u>Bryan.Haney@Altamira-us.com</u>>; Hamlet, Robert, EMNRD
<<u>Robert.Hamlet@state.nm.us</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>
Subject: RE: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

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Ramona

Ramona Lopez Marcus • Program Coordinator Project Management Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 505.470.3044 | <u>Ramona.Marcus@state.nm.us</u> http:// www.emnrd.nm.gov



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Sent: Thursday, January 20, 2022 12:18 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Marcus, Ramona, EMNRD <Ramona.Marcus@state.nm.us>; Kurt Shipley
<kshipley@novoog.com>
Subject: [EXTERNAL] Novo Culebra Bluff Soil Assessment Activities - 48-Hour Notification nAPP2132562482

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Thanks for your help,

Bryan

# Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com





APPENDIX B Permits

•

John T. Romero (Acting) State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 716696 File Nbr: C 04588

Jan. 18, 2022

JOHN WHITE WHITE DRILLING COMPANY INC PO BOX 906 CLYDE, TX 79510

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- \* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- \* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- \* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

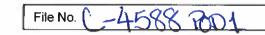
Sincerely, Azucena Ramirez

(575)622-6521

Enclosure

explore

Received by OCD: 5/20/2022 3:34:57 PM



# NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

## A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/					
Purpose:		Pollution Control And/Or Recovery	Ground Source Heat Pump		
Exploratory Well (Pump test)		Construction Site/Public Works Dewatering	Other(Describe): Environmental Soil Borings		
Monitoring Well		Mine Dewatering			
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.					
Temporary Request - Requested Start Date: 2/14/2022 Requested End Date: 3/14/2021					
Plugging Plan of Operations Submitted? I Yes No					

#### 1. APPLICANT(S)

Page 53 of 377

Name:		Name:		
Novo Oil & Gas Northern Delaware, LLC		White Drilling Company, Inc.		
Contact or Agent: check here if Agent		Contact or Agent: check here if Agent		
Kurt Shipley		John White		
Mailing Address:		Mailing Address:		
1001 W. Wilshire Blvd., Suite 206		PO Box 906		
City: Oklahoma City		City: Clyde		
State:	Zip Code:	State:	Zip Code:	
OK	73116	Texas	79510	
Phone: 405-286-3916 Phone (Work):	🗌 Home 🔳 Cell	Phone: 325-893-2950 Phone (Work):	Home E Cell	
E-mail (optional):		E-mail (optional):		
kshipley@novoog.com		office@whitedrilling.com		

OSE DIT JAN 11 2022 M3:56

FOR OSE INTERNAL USE	Application for Permit, Form WR-0	)7, Rev 11/17/16
File No. C-4588	Trn. No.: 716696	Receipt No.: 2-44132
Trans Description (optional):	LON	
Sub-Basin:	PCW/LOG Due	Date: 118 23
		Page 1 of 3

Released to Imaging: 9/21/2022 8:11:41 AM

(Lat/Long - WGS84).		•	State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude
District II (Roswell) and Dist	trict VII (Cimarron) c	ustomers, provide	a PLSS location in addition to above.
NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone		JTM (NAD83) (Meta ]Zone 12N ]Zone 13N	ers) <b>I</b> Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) ( <i>Quarters or Halves , Section, Township, Range</i> ) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SB-1	<b>37.20 28.3</b> 32.3411981	104 5 7.82 -104.085505	Twp: T23S, Rng: R28E, Sec: 4, Qtr: NE
NOTE: If more well location Additional well descriptions			n WR-08 (Attachment 1 – POD Descriptions) If yes, how many <u>NA</u>
Other description relating well			
From Highway 31 (Potash Min Road. Turn southwest on Herr	es Road) and Highwa adura Bend Road and	y 605, travel northy d travel approximat	vest on Highway 605 approximately 3.4 miles to Herradura Bend ely 0.65 miles and turn/continue south 0.7 miles to site location.
Well is on land owned by BLM	I (leased to Novo Oil	& Gas)	
Well Information: NOTE: If n If yes, how many	nore than one (1) we	ll needs to be des	scribed, provide attachment. Attached? 🔲 Yes 🔳 No
Approximate depth of well (fee	et): Boring (1) to 51 ft	(	Dutside diameter of well casing (inches): 6-inch diam soil boring
Driller Name: White Drilling Company, Inc. Driller License Number: WD-1456			

#### **3. ADDITIONAL STATEMENTS OR EXPLANATIONS**

This permit is for the installation of an environmental soil boring for collection of soil samples associated with a release of produced water near the site area. Soil boring will be installed using an air rotary drilling rig. One soil boring will be installed to a depth of 51 feet below ground surface. Soil boring will be plugged following installation and soil sample collection. It is anticipated it will take approximately one hour to install the soil boring and plug back to the surface in accordance with the approved plugging plan.

OSE DII JAN 11 2022 PM3:56

FOR	OSE	INTERNAL	USE
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Application for Permit, Form WR-07

File No.: 6-4588

Trn No.: 716696

Page 2 of 3

Received by OCD: 5/20/2022 3:34:57 PM

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4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

	••••••••••••••••••••••••••••••••••••••		
Exploratory:	Pollution Control and/or Recovery:	Construction	Mine De-Watering:
🗌 🔲 Include a	Include a plan for pollution	De-Watering:	Include a plan for pollution
description of	control/recovery, that includes the	Include a description of the	control/recovery, that includes the following:
any proposed	following:	proposed dewatering	A description of the need for mine
pump test, if	A description of the need for the	operation,	dewatering.
applicable.	pollution control or recovery operation.	The estimated duration of	The estimated maximum period of time
	The estimated maximum period of	the operation,	for completion of the operation.
	time for completion of the operation.	The maximum amount of	The source(s) of the water to be diverted.
i i	The annual diversion amount.	water to be diverted,	The geohydrologic characteristics of the
	The annual consumptive use	A description of the need	aquifer(s).
	amount.	for the dewatering operation,	The maximum amount of water to be
	The maximum amount of water to be	and,	diverted per annum.
	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation.
	The method and place of discharge.	of.	The quality of the water.
Monitoring:	The method of measurement of	Ground Source Heat Pump:	The method of measurement of water
Include the	water produced and discharged.	Include a description of the	diverted.
reason for the	The source of water to be injected.	geothermal heat exchange	The recharge of water to the aquifer.
monitoring	The method of measurement of	project,	Description of the estimated area of
well, and,	water injected.	The number of boreholes	hydrologic effect of the project.
🔲 The	The characteristics of the aquifer.	for the completed project and	The method and place of discharge.
duration	The method of determining the	required depths.	An estimation of the effects on surface
of the planned	resulting annual consumptive use of	The time frame for	water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
-	stream system.	heat exchange project, and,	A description of the methods employed to
	Proof of any permit required from the	The duration of the project.	estimate effects on surface water rights and
	New Mexico Environment Department.	🔲 Preliminary surveys, design	underground water rights.
	An access agreement if the	data, and additional	Information on existing wells, rivers,
	applicant is not the owner of the land on	information shall be included to	springs, and wetlands within the area of
	which the pollution plume control or	provide all essential facts	hydrologic effect.
	recovery well is to be located.	relating to the request.	

#### ACKNOWLEDGEMENT

John White I, We (name of applicant(s)),

Print Name(s)

affirm that the focegoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signat

Received by OCD: 5/20/2022 3:34:57 PM

Applicant Signature

#### ACTION OF THE STATE ENGINEER

This application is:

partially approved

approved denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the <u>attached</u> conditions of approval.

Witness my hand and seal this $18^{-10}$ day of	January 20 22, for	the State Engineer,
John T. Romero (Ac	ting, State Engineer	05E DII JAN 11 2022 M3:56
By K. Porchl	Kashya	prarekh
Signature <u>Title: UOLTER RESOURCE</u> Print	s Manager I	(
	FOR OSE INTERNAL USE	Application for Permit, Form WR-07

Page 3 of 3

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

File Number: C 04588 Trn Number: 716696 Released to Imaging: 9/21/2022 8:11:41 AM

Received by OCD: 5/20/2022 3:34:57 PM

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#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

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#### Trn Desc: <u>C 04588 POD1</u>

File Number: <u>C 04588</u> Trn Number: <u>716696</u> Released to Imaging: 9/21/2022 8:11:41 AM

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

### SPECIFIC CONDITIONS OF APPROVAL (Continued)

Page 58 of 377

LOG The Point of Diversion C 04588 POD1 must be completed and the Well Log filed on or before 01/18/2023.

SHOULD THE PERMITTEE CHANGE THE PURPOSE OF USE TO OTHER THAN MONITORING PURPOSES, AN APPLICATION SHALL BE ACQUIRED FROM THE OFFICE OF THE STATE ENGINEER.

#### ACTION OF STATE ENGINEER

Notice of Intention Rcvd:		Date Rcvd. Corrected:
Formal Application Rcvd:	01/11/2022	Pub. of Notice Ordered:
Date Returned - Correction:		Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this <u>18</u> day of <u>Jan</u> A.D., <u>2022</u>

John T. Romero (Acting) , State Engineer

By: KASHYAP PAREKH

Released to Imaging: 9/21/2022 8:11:41 AM

Received by OCD: 5/20/2022 3:34:57 PM

File Number: <u>C 04588</u> Trn Number: <u>716696</u>



#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

John T. Romero, P.E. Acting State Engineer

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

January 12, 2022

Novo Oil & Gas Northern Delaware LLC 1001 W. Wilshire Blvd., Suite 206 Oklahoma City, OK 73116

RE: Well Plugging Plan of Operations for C-4588-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer.

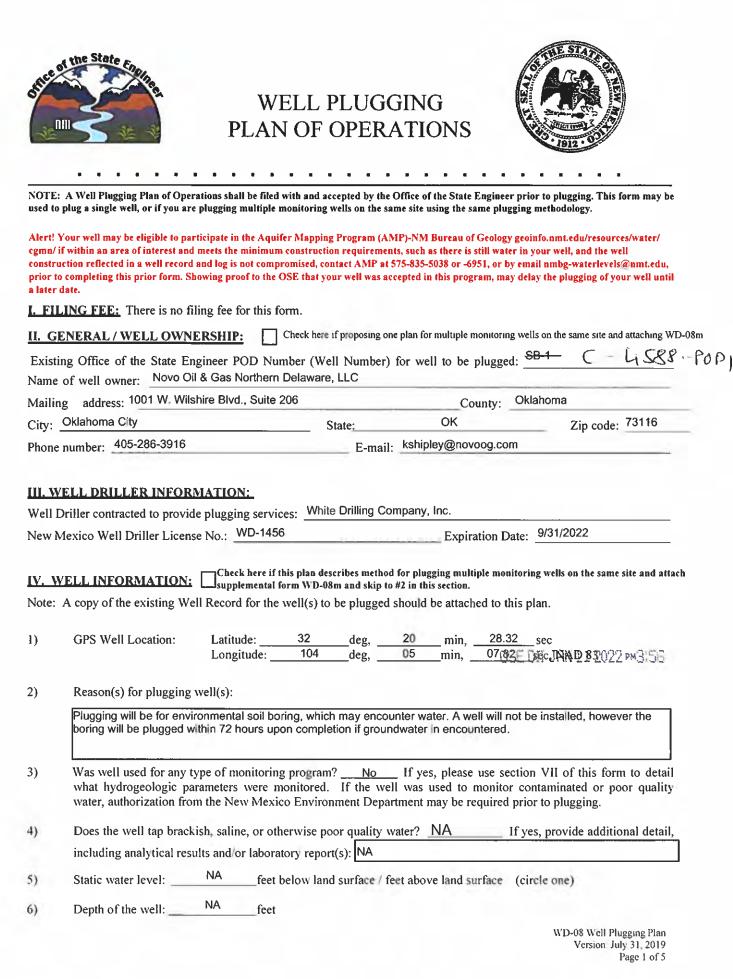
- (1) Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.
- (2) Well that encounters water No more than 6.0 gallons water per 94 lb. sack of neat cement slurry. High Solids Bentonite Grout Mixing ratios to attain 20% active solids by weight.
- (3) Dry borehole Drill cuttings or clean native fill up to 20 feet of land surface. 0 to 20 feet of land surface: Bentonite Chips Fresh water to be added above the water column at rate of 5 gallons per 50-lb sack/bucket
- (4) Any deviation from this plan <u>must</u> obtain an approved variance from this office prior to implementation.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Received by OCD: 5/20/2022 3:34:57 PM

Kashyap Parekh Water Resources Manager I



Received by OCD: 5/20/2022 3:34:57 PM

7

inside diameter of infermiosi casinginclies.
Casing material: <u>NA</u>
The well was constructed with: an open-hole production interval, state the open interval: NA a well screen or perforated pipe, state the screened interval(s): NA
What annular interval surrounding the artesian casing of this well is cement-grouted?
otherwise sealed? If yes, please describe:
NA
Has all pumping equipment and associated piping been removed from the well? <u>NA</u> If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

inches

NA

# V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology

proposed for the well:

If groundwater is encountered, Trimie Type 1 cement-bentonite slurry from bottom of boring to ground level. In the event that groundwater is not encountered, backfill with clean dry cuttings or clean native fill to 10 feet, 10-0 feet, 99lbs of 3/8 bentonite chips hydrated with 10 gallons of water.

2) Will well head be cut-off below land surface after plugging? NA

#### VI. PLUGGING AND SEALING MATERIALS:

Incide diameter of innermost cacing

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: <u>10 CF or 74 Gallons</u>

4) Type of Cement proposed: <u>Type 1 Cement-Bentonite Slurry</u>

5) Proposed cement grout mix: 8.45 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: \_\_\_\_\_batch-mixed and delivered to the site

× mixed on site

DSE DIT JAN 11 2022 PM3:55

7)

8)

NA

NA

NA

# Grout additives requested, and percent by dry weight relative to cement:

Additional notes and calculations:

# VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

# VIII. SIGNATURE:

L John White \_, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

ignature of Applicant

Date

#### **IX. ACTION OF THE STATE ENGINEER:**

This Well Plugging Plan of Operations is:

USE DII JAN 11 2022 PM3:56

WD-08 Well Plugging Plan Version: July 31, 2019 Page 3 of 5

day of JANUARY, 2022 John T. Romero John R. D'Antonio Jr. P.E., New Mexico State Engineer (Acting By: <u>K. Pareph</u> KASHTAP PAREKH

Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. ,th

Witness my hand and official seal this



Received by OCD: 5/20/2022 3:34:57 PM

Released to Imaging: 9/21/2022 8:11:41 AM WATER RESOURCES MANAGERS

# TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	0		
Bottom of proposed interval of grout placement (ft bgl)	51		
Theoretical volume of grout required per interval (gallons)	47		
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	8.45		
Mixed on-site or batch- mixed and delivered?	on-site		
Grout additive 1 requested	5% Bentonite		
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement	52		35E DTI JAN 11 2022 ™3:56

# TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

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WD-08 Well Plugging Plan Version: July 31, 2019 Page 5 of 5

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PAGE 1 OF 2

WELL TAG ID NO.



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

ATION	OSE POD NO C-4588-PO WELL OWN	OD1 (S	B-1) E(S)			ÆLL TAG ID NO			OSE FILE C-4588 PHONE (C	-			
Loc	Novo Oil	Novo Oil & Gas Northern Delware LLC											
AND WELL LOCATION	WELL OWNER MAILING ADDRESS 1001 W. Wilshire Blvd., Suite 206						CITY Oklahon	na C	ity	STATE OK 73116	ZIP		
	WELL		LATI	DE	GREES 32	aa aa aa aa a			* ACCURACY REQUIRED: ONE TENTH OF A SECOND				, V roce of the second of the
GENERAL	(FROM GI	PS)	LONG	JITUDE	104	5	8.40	)4 W	* DATUM	I REÇ	UIRED: WGS 84		
1. GEN	DESCRIPTI Culebra B			WELL LOCATION TO	STREET ADDRES	S AND COMMON	I LANDM	ARKS – PLS	S (SECTION	ί, ΤΟ	WNSHIIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO	D.	2000 (Y. 1	NAME OF LICENSED	DRILLER			275. 24. 12. 2 2 14. 11 •	ny teo ang at sing pananan na	r., (s. 54%)	NAME OF WELL DRI	ILLING COMPANY	
	WD-	1456		•	Jo	hn W. White					White D	rilling Company, Inc.	
	DRILLING S 1/25/2			DRILLING ENDED 1/25/2022	DEPTH OF COMP	LETED WELL (F	Г)		e depth (f. 50.0	FT)	DEPTH WATER FIRS	T ENCOUNTERED (FT) 46.5	
N	COMPLETED WELL IS:			ARTESIAN	DRY HOLE	SHALLO	W (UNCO	INCONFINED) STATIC WATER LEVEL IN CO.			el in completed we 46.5	ELL (FT)	
OIL	DRILLING F	LUID:		✓ AIR	MUD	ADDITIV	ES SPEC	IFY:		t			
RMA	DRILLING M	AETHOD:		🖌 ROTARY	HAMMER	CABLE T	OOL	OTHEI	R – SPECIFY	<b>:</b> :			
2. DRILLING & CASING INFORMATION				BORE HOLE				57151110		CASING	CASING WALL THICKNESS	SLOT	
CASING	FROM TO		, 	DIAM (inches)	(include each casing string, and note sections of screen)			CONNECTION TYPE (add coupling diameter)		r)	INSIDE DIAM. (inches)	(inches)	(inches)
G & (						······					<u></u>	·	
TIN							· ·				<u></u>		- <u></u>
DRII													
5													
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					and the first state of the stat	in entrepeting chart betrefice						an an ann an tha an an an tha an an an tha	
	DEPTH	(feet bg	I)	BORE HOLE	LIST	ANNULAR SH	EAL MA	FERIAL A	ND		AMOUNT	METHO	
IAL	FROM	тс		DIAM. (inches)		L PACK SIZE			RVAL		(cubic feet)	PLACEN	
ANNULAR MATERIAL	0.0	50.	0	5.0	· .	Type 1 Cement	-Bentoni	te Slurry			6.82	Pump Mix w/	Frimie Pipe
RM													
NLA						1100-1					<u></u>		
3.													
FOR		L	<u>ег</u>		I				ריזן		WELL DECODE	L DG (Version 04/2	0/10)
FOR FILE	<u>OSE INTER</u> NO.	UNAL U	oe			POD NO	 ).			<u>R-20</u> RN N		& LOG (Version 04/3	0/17)

LOCATION

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	DEPTH (feet bgl)       COLOR AND TYPE OF MATERIAL ENCOUNTERED -         FROM       TO       THICKNESS (feet)         INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						s	BEAI	TER XING? / NO)	ESTIMATED YIELD FOR WATER- BEARING	
	0.0	3.0	3.0						37	())	ZONES (gpm)
	3.0	18.0	15.0		Brown sandy silt w/cal	icne.	Ma		Y	✓ N ✓ N	
and and a second se	18.0	20.0	2.0		Limestone gravel. Red/brown sandy cla				Y		
	20.0	25.0	5.0	Pad/brox					Y Y	✓ N	
91.4	25.0	45.0	20.0	Ked/0101	wn sandstone w/red brn silty Red/brown sandy clay/clay				Y	✓ N	
	45.0	46.0	1.0		Brown sand.				Y .		
WELL	46.0	47.0	1.0		Brown sandy clay.				v vy	✓ N N	
	47.0	50.0	3.0		Brown sand.						· · ·
4. HYDROGEOLOGIC LOG OF	47.0	50.0	5.0		Brown sand.				✓ Y Y	N	
CLC										N N	
150									Y 	N	
EOL		·			· · ·			<u> </u>	Y Y	N N	
SOG		· · · ·							Y	N	
IGX				<u>`</u>			· · ·		 Y	N	
4. B									т 	N	
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	METHODUS	ED TO EST		OF WATER-BEARIN				TOTAL		N	
	PUMP				THER – SPECIFY:				YIELD		0.00
<u>z</u>	WELL TEST	TEST R START	ESULTS - ATTA TIME, END TIM	CH A COPY OF DA E, AND A TABLE SI	IA COLLECTED DURING HOWING DISCHARGE AI	WELL ID DRA	TESTING, INC WDOWN OVE	LUDINC R THE 1	) DISCI FESTIN	IARGE N G PERIO	ÆTHOD, D.
5. LEST; RUG SUPERVISION	MISCELLAN	en des sites autores									
ESI ESI	PRINT NAMI	E(S) OF DRI	LL RIG SUPERV	ISOR(S) THAT PRO	VIDED ONSITE SUPERV	SIONO	F WELL CONS	TRUCT	ION OT	НЕР ТО	AN LICENSEE
2.1	William B. A					510110		incoci	1011 01		AN LICENSEE.
TOTO TANISTIC	RECORD OF	THE ABOV	'E DESCRIBED V	VELL. I ALSO CERT	F MY KNOWLEDGE AN IFY THAT THE WELL TA IOLDER WITHIN 30 DAY	G IF RI	FOURED HAS	BEEN	INSTAI	LED AN	D THAT THIS
NISTIC .0			6	Jo	ohn W. White				02/08/	/2022	
	<u></u>	SIGNATU	RE OF DRILLER	/ PRINT SIGNEE	NAME	- ·				DATE	
FOR	OSE INTERN	AL USE	•				WR-20 WEL	L RECO	RD & I	.OG (Ver	sion 04/30/2019)
FILE	ENO.				POD NO.		TRN NO.			<u> </u>	
LOC	ATION					WELL	TAG ID NO.				PAGE 2 OF 2

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Page <u>1</u> of <u>2</u>

Client: ALTAMIRA								
Project: NOVO-	-Culebra Bluff CTB3		Date Started: 1/25/2022	Well No.: SB-2				
Project Address: State/City/Zip:	Rural Eddy Co., NM		Date Completed: Total Depth: 15'					
Well Owner: No	vo Oil & Gas Northern	Delware LLC	Driller: Dallas Rader	Hole Diameter: 5"				
Owner Address:	1001 W. Wilshire Blvd	l, Ste. 206	Driller's Helpers:	Logged By:				
State/City/Zip:	Oklahoma City, OK 73	3116	Bo Atkins	Bo Atkins				
	WELL COMPLETIO	ON DATA	WELL PLUG	GING DATA				
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):				
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: /	Portland/Bent./Grout Ft/bag: 15 - 0 / 2 bags				
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	GPS: 32.3419615 -104.0856639	Total Disposal Drums:				
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: TOC Dry GL	Clean XDirty				
DEPTH (ft.)		DESC	RIPTION					
0.0 to 14.0	Caliche.							
14.0 to 15.0	Red brown sandy	y clay.						
			· · · · · · · · · · · · · · · · · · ·					
			·					
		11 min 1						

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# WHITE DRILLING COMPANY, INC. ENVIRONMENTAL/GEOTECHNICAL FIELD LOG

Well N	lo:	SB-2			
Page	$2^{-}$	of	2		

DEPTH (ft.)			DESCRIP	TION		
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						. <u></u> i
		· · · · · · · · · · · · · · · · · · ·	······································			
				<u> </u>		
			. <u></u>			· · · · · · · · · · · · · · · · · · ·
				·		
			·			
Per Diem (days)	Well Dev./hrs.	Decon/hrs.	Air Knife/ Hydro Vac/hrs.	NX Core/ft.	Standby Time/hrs.	Rig Time/hrs.
		.25				
DRILLING ME	THOD: 🛛 🕮 A	ir Rotary 🛛 D	Aud Rotary 🛛 D	riven 🛛 Air H	ammer 🗆	Other
SURFACE CON	<b>APETION</b>			метног	OF COMP	I ETION.
□ Alternative Pro		□ Surface Sle	eve Installed	□ Hand Mi		
□ Surface Slab In		□ Bollards		□ <b>x</b> Pump M	ix w/tremmie	e pipe
$\Box$ Upright Vault		$\_$ $\Box$ Flush Mou	nt Vault			
Notes:		- 187	On-site Safety Tin	ne:		
•						
□ SKIDSTEER _	days	□ VAC TRAIL	LER USED	_days		
□ SAND MATS	days			TYPE OF (		
	N	$\sim 11^{\circ}$		🗆 Hydorcai	ruon (χ	(Cholrides
DRILLERS SIGN				□ Other		
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APPENDIX C Photographic Documentation

# Appendix C - Photograph Log Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2132562482



View north at meter station and camel back - point of release at poly piping



View south at release area to the southwest

## Appendix C - Photograph Log Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2132562482



View northwest at point of release and area south or release



View southwest at release area near central and west portions of site

## Appendix C - Photograph Log Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2132562482



View southeast at release area - Goonch CTB3 pad in background, release around pipeline



View south at release area and various water lines



View west towards point of release from approximate SB-23 location, pipeline and water lines in assessment area



View southeast at release area and Goonch CTB3 pad, water lines and above ground equipment



View southeast at point of release meter/camel back and pipelines in background



View southeast at rig set up at SB-1 location



View south - SB-1 boring plugged and abandoned



View southeast at rid setup at SB-2 location



View south at hand auger soil boring location



View west at hand auger boring location SB-20 and various pipelines



View southeast at hand auger boring location near pad area



View southwest - hand auger soil boring location SB-5



View north across site area at pipelines, water lines, and construction within ROWs



View north across site area at pipelines, trenches, and construction within ROWs



View northwest at surface equipment, pipelines and construction within ROWs



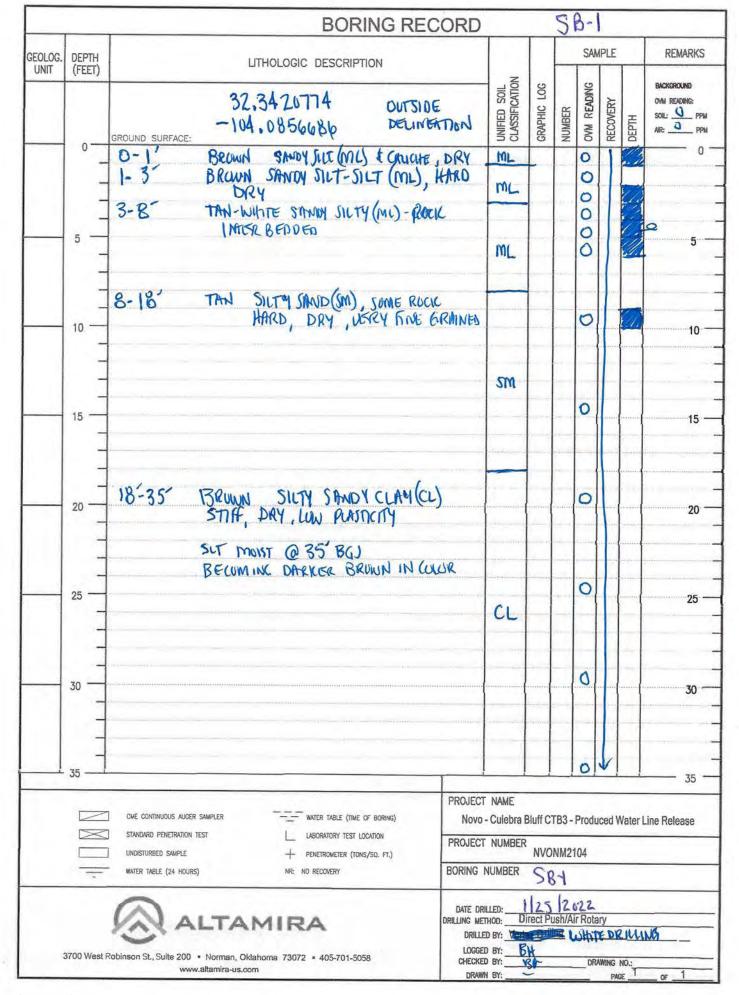
View west at surface equipment, pipelines and construction within ROWs

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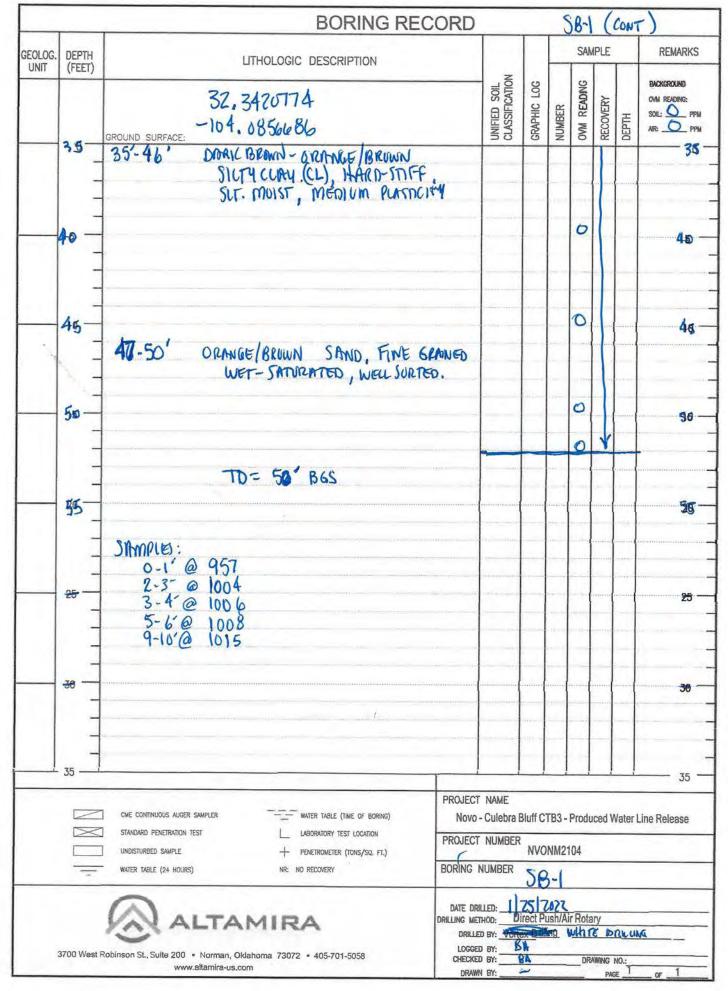


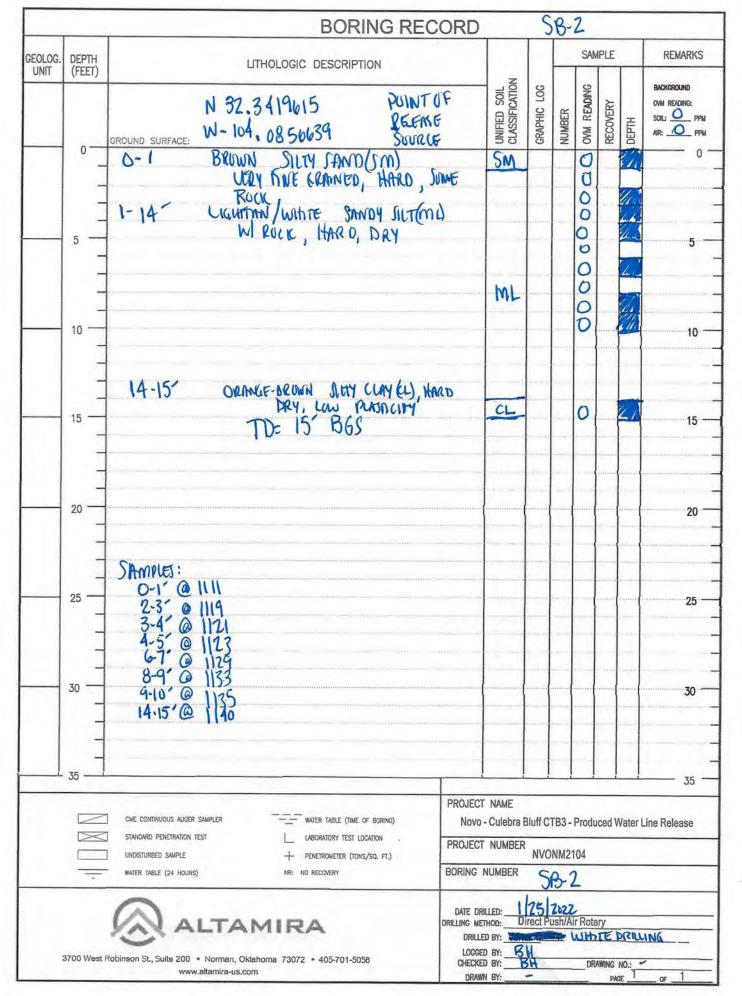
APPENDIX D Soil Boring Logs

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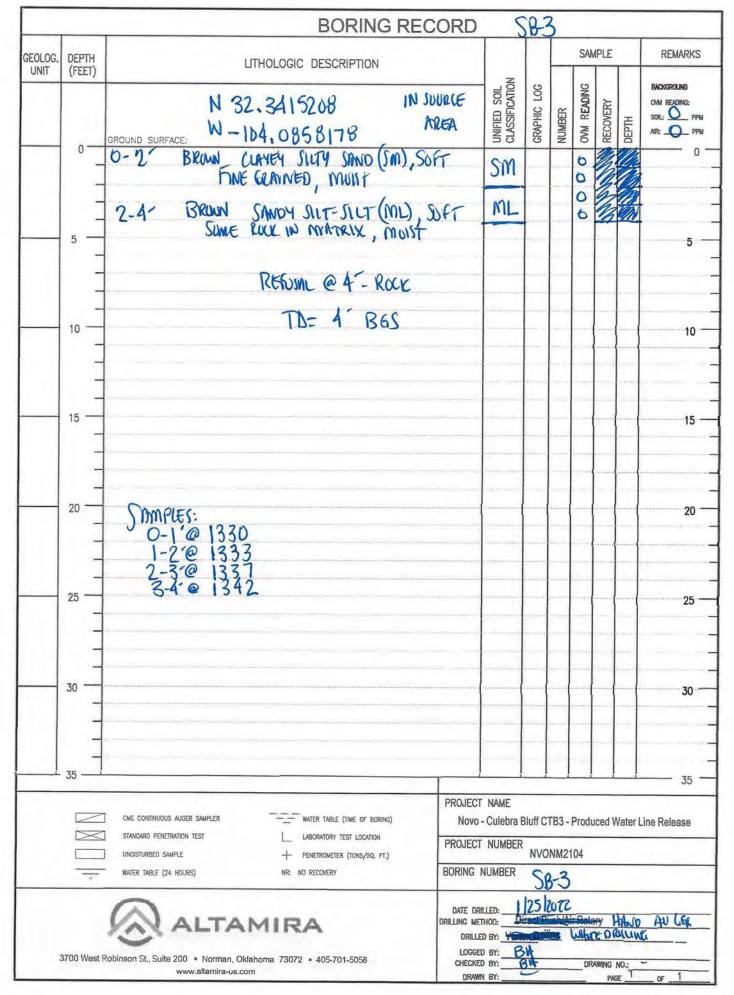


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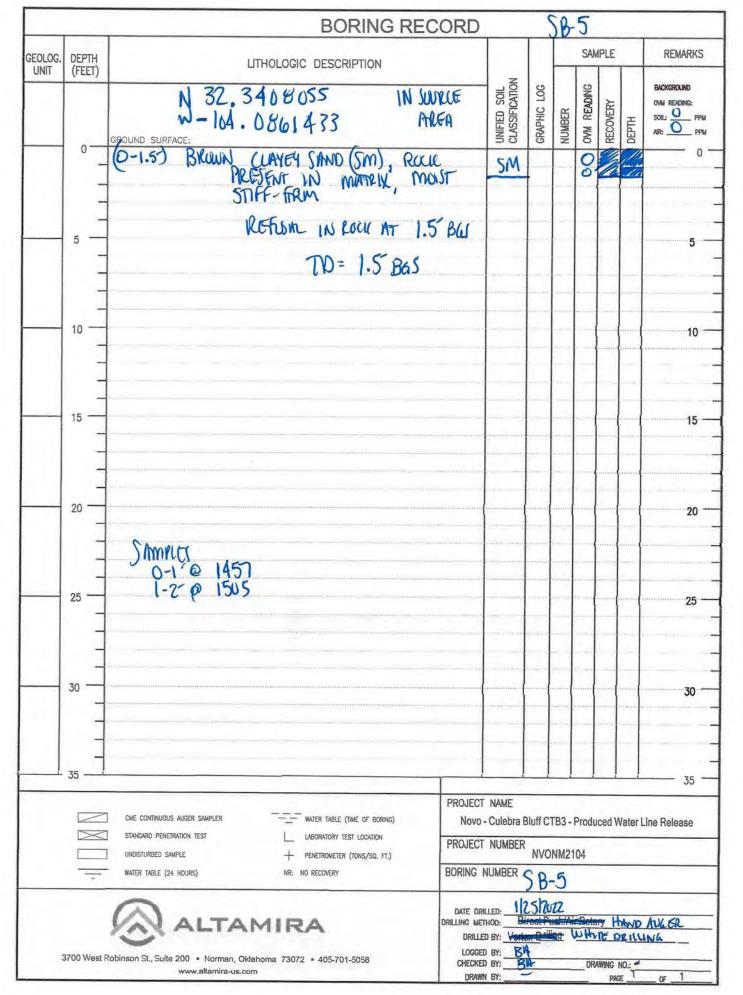


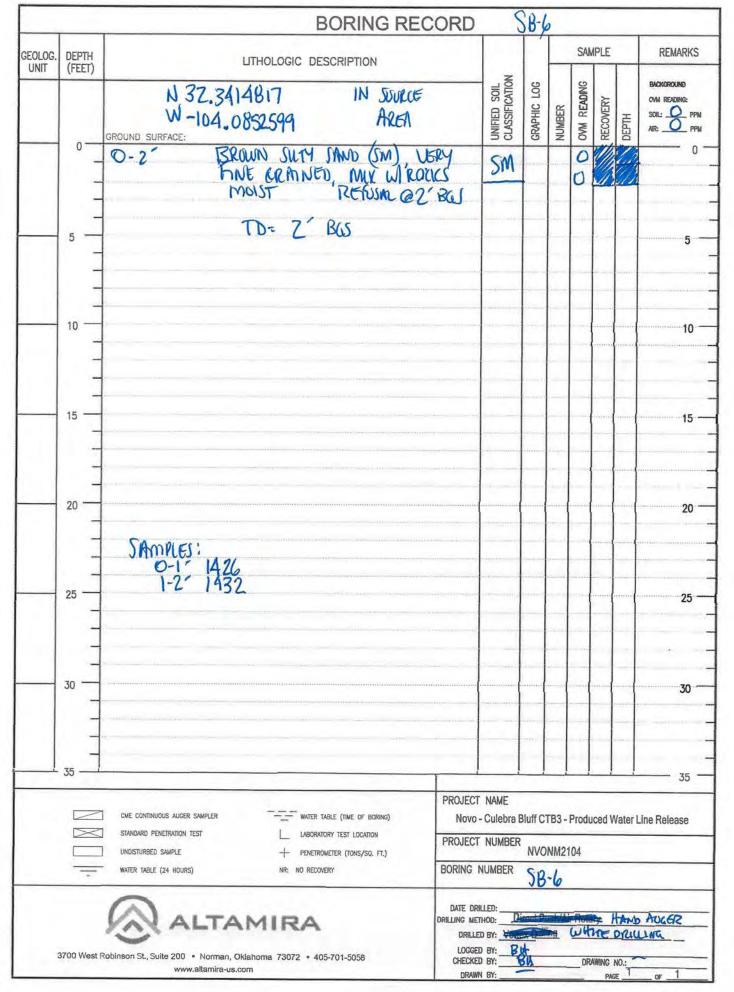


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		BORING RE	ECORD		SB	-4				
EOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION					SAN	IPLE		REMARKS
		N 32.3410562 IN SU W - 104.0359848 ALE		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: PPA AIR: PPA
	0 -	0-2' BROWN SILT (ML), SUFT DRY, ROCK WITHIN MATRIX	(	ML		24	00			0
	-	REFISIL @ 2" IN HARD K	low			-1101		_		
	5	TD= 2' Bas								5
-	10									
	15	SAMILLET: 0-1'@ 1410 1-2'@ 1415	9. 1. htt							15
		1-2'@ 1415			(11)					
	20									20
-	25									25
_	30									30
										an antere a
	35	CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING)	PROJECT Novo -		I Sluff C	<u>ן</u> TB3 -	ļ Produ	I ced V	l Vater L	35
		STANDARD PENETRATION TEST LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	PROJECT BORING N		NVO	NM21	04			
3	700 West R	obinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058 www.altamira-us.com	Date Dri Drilling Met Drille Logged Checked Drawn	HOD: <b>D</b> D BY: <b>Volu</b> ) BY: <b>S</b> ) BY: <b>S</b>		ish/Ai	hit		NO.:	AUGER NG





# Page 88 of 377

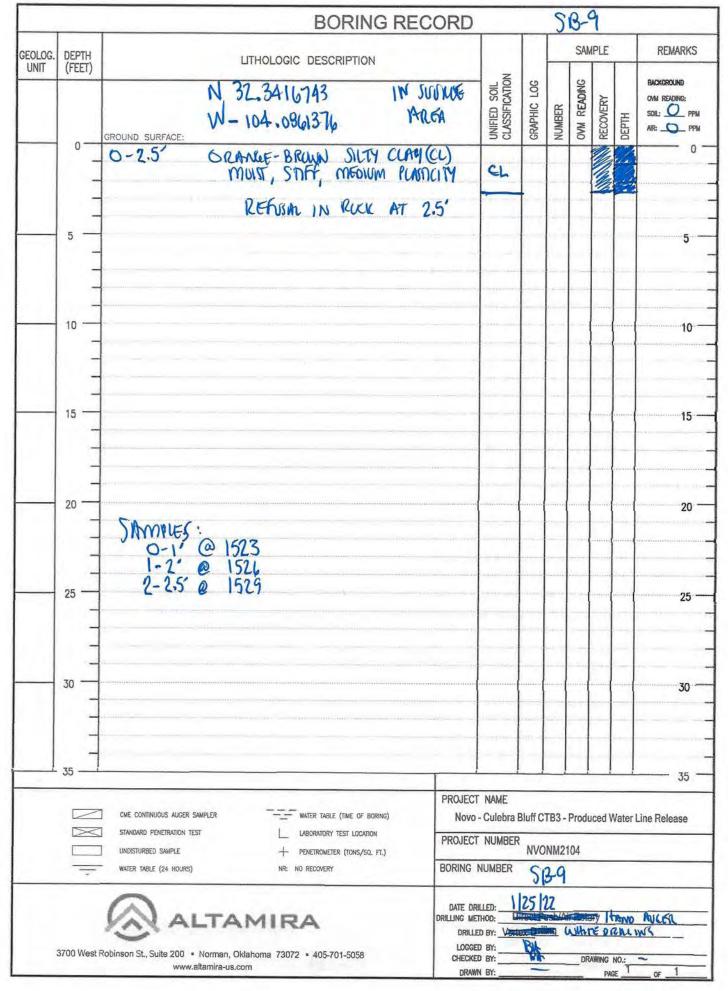
		BORING RECORI	)	SR	-H	¥7	-	_	
EOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				SAN	IPLE		REMARKS
Jun		N 32.3410953 IN SUVRIE W-104.0846980 AREA GROUND SURFACE:	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: PPM AIR: PPM
	0	0-2"- CALCUTE PINO ATREA 2"-2.5" ON INGE/BROWN CUNEY SINVO (SI MULT, FINE GRANNED, SOME ROUL IN MATRIX	ol SM			000			0
-	5 —	RETUSAL AT 2.5' IN ROCK	-						5
	-	TD= 2.5' B65							
_	10								10
	15 —						-		15
	20	SAMALES 0-1 @ 1558 1-2' @ 1601 2-2.5 @ 1603			(11)				20
	25 — — —								25
_	30								30
			in ann ann a					-	
	35	CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) NO	CT NAME vo - Culebra	Bluff C	1 TB3 -	Produ	Iced V	/ater L	.ine Release
		UNDISTURBED SAMPLE - PENETROMETER (TONS/SQ. FT.)	CT NUMBER	NVO	NM21		1		
3	3700 West R	ALTAMIRA Robinson St., Suite 200 • Norman, Oklahoma, 73072 • 405-701-5058	METHOD:	25	22	Add	AWING I	RIL	ANGLER

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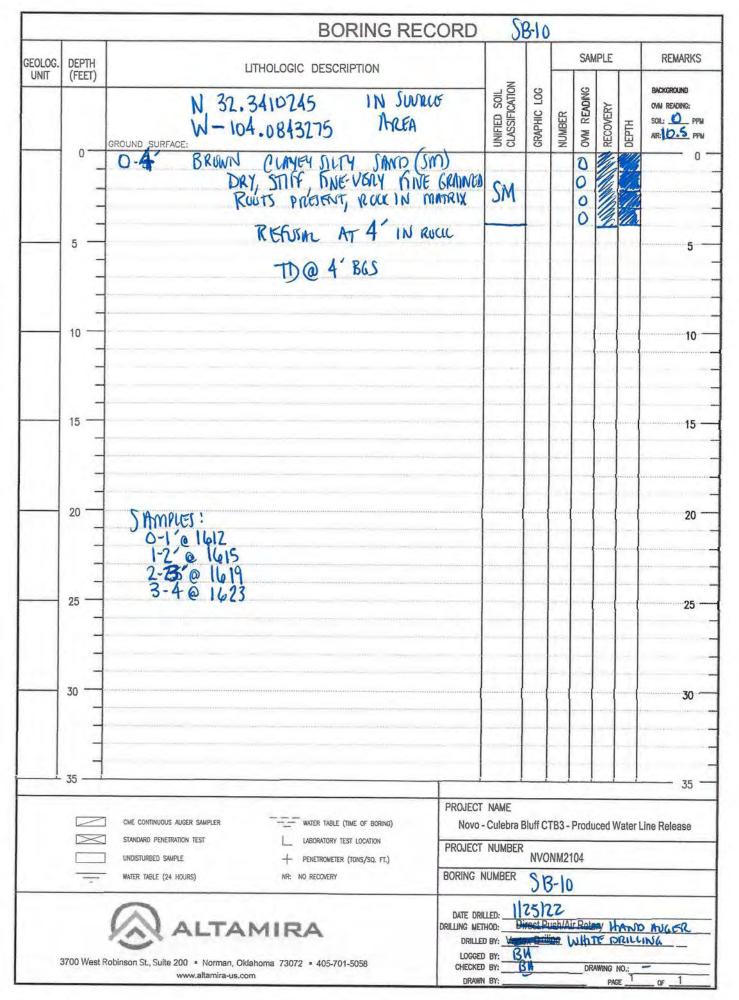
# Page 89 of 377

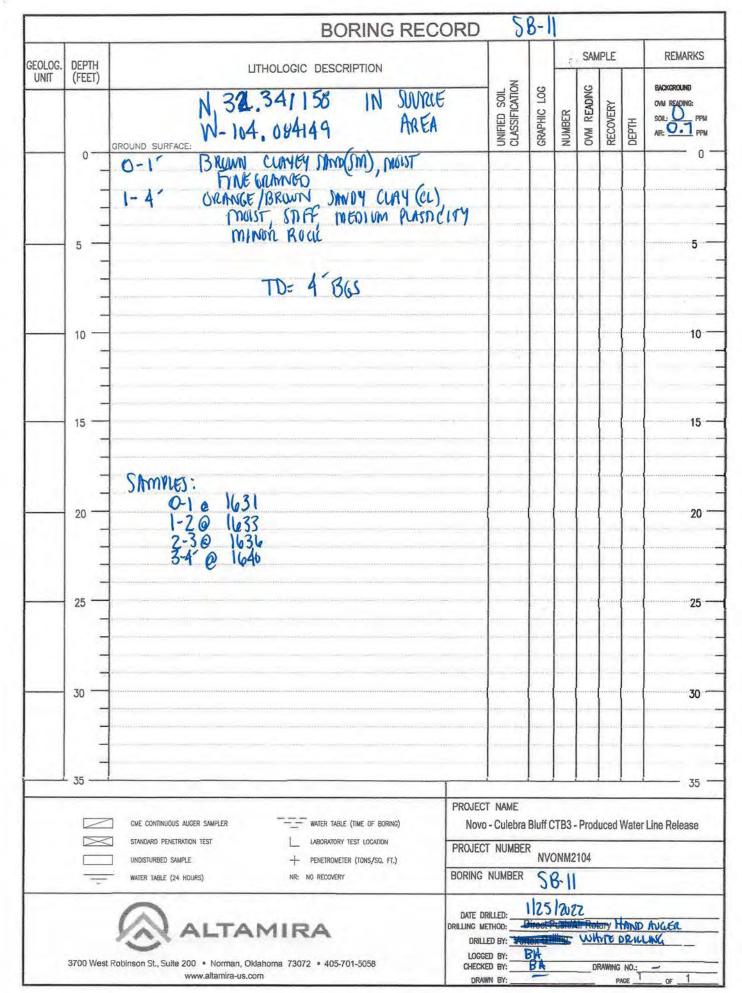
		BORING RECORD			Se	3-18			
EOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				SAM	IPLE	1	REMARKS
UIII		N 32.3416715 IN JULIEE W-104.0853196 AREA	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND CVM READING: SOIL: PPI AIR: PPI
	0	0-1' ORANGE/BRUNN SILTM, CLAMEN SAND()M) MUNIT, ROUL IN MATRIN, SOFT	SW	inner-		0			
	-	that ROLK AT 1 - MULTIPLE ASTONIO		-	1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r++*		_	1
	5 -	TD = 1' BGS						-	5
	10					-			10
	-							-	
	15 -								15
_	20	JIMMIUSI: 0-1'@ 1445							20
_	25								25
	30								30
		na an a				n(			
	35	PROJECT	NAME						35
		STANDARD PENETRATION TEST	- Culebra I NUMBER		TB3 -		uced \	Water I	Line Release
		WATER TABLE (24 HOURS) NR: NO RECOVERY BORING	NUMBER	SE	3-8	3			
	3700 West Ro	DATE DR DRLLING ME DRLLING ME	Thod: =D BY: D BY: D BY: D BY: D BY: 	25			AWING	PRN	O AUGER

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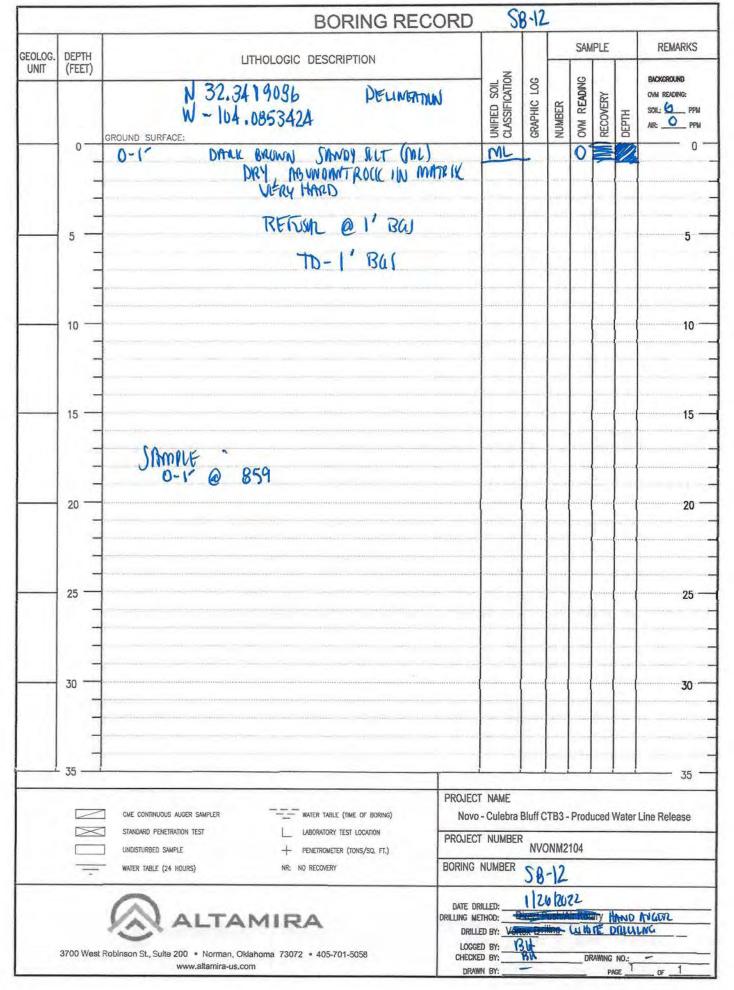


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		BORING RECORD	S	B-	13				
EOLOG.	DEPTH	LITHOLOGIC DESCRIPTION				SAN	IPLE		REMARKS
UNIT	(FEET)	N 32.3418734 DEINERTION W-104.0960461	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: PPM AIR: PPM
	0	BRUNN SILTY SAND (SM), VORY FINE GRAINGO, IHARD, DRY AQUMMENT ROCK MATTERIAL INVINATELY	SM			0000	MUNUMUNUM		0
	5 -	TD-4 1365							5
	10					1,000			10-
	15								15 -
	20	STIMPLES: O-1'@ 841.			(1449) (1				20 -
	25	0-1- @ 841 1-2- @ 844 2-3- @ 848 3-4- @ 851							
	30								30
	35	1					ļ		35 -
		STANDARD PENETRATION TEST LABORATORY TEST LOCATION PROJECT		NVC	TB3-	104	uced V	Vater L	ine Release
	3700 West Rd		ETHOD: Di ED BY: Voir ED BY: C	126	1748	22 In Rote Mith1	EOR		

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-		BORING REC	ORD	5	B-1	4				
GEOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION					SAN	PLE		REMARKS
UNIT		N 32.3415300 NEUNEA W-104.0860233 GROUND SURFACE:	אטת	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: Soil: PPM AIR: PPM
	0	0-1- BROWN SIMOY SILT (ML), DR SUG- ROCK IN MATRIX	ч	ML			0			0
	-	ROCK REDOAL @ 1'			-			1	-	· ··· · · · ·
	5 -	TD-1' BGS								5
	10 -									- 10
	111			· · · · · · · ·						
_	15 —	5B-14 @ 0-1- @ 935		4.1	() () () () () () () () () () () () () (	() = () () = () = ()			g (	
	-									
	20									20 -
_	25 —					in a second				25 -
		<ul> <li>In the second sec</li></ul>								
	30									30 -
	35		,		-					35 -
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	PROJECT Novo - PROJECT BORING N	- Culebra E NUMBER	NVC	TB3- DNM2 8-1	104	iced V	Vater	Line Release
3	3700 West F	Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058 www.altamira-us.com	DATE DRI DRILLING MET DRILLE LOGGET CHECKET	D BY: Vorte	20 rect P	120 ush/A	r Rota	ary	NO.:	

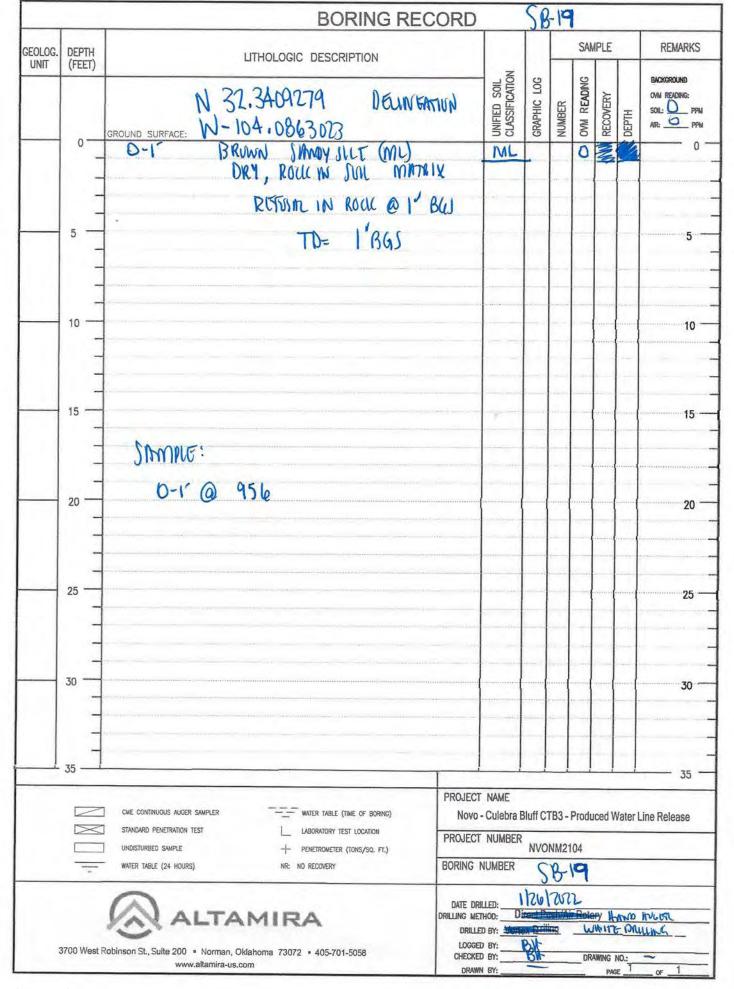
T		BORING REC	JOND	SB-	15	-	-	-		
EOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION		z		-	1	IPLE		REMARKS
		N 32.3417.465 DOING W-104.0852083	mund	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	Background ovm reading; soil; ppi air; ppi
	0	0-2 BRINN CLAMBY SILT (ML), DR HARD, ROCK IN MATRIX	24	ML			00	MMM	5	0
		REFUSIN ATZ-BUS				1.000		-	-	
	5 —	TD= 2- BW								5
-	10									10
_	15 -									15
	20	SAMPLES: 0-1- @ 914 1-2- @ 917	1)							
										20
_	25		-			111				25
_	30 -									30
	35									35
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	PROJECT N Novo - C PROJECT N BORING NL	Culebra B NUMBER	NVO	TB3- NM21 3-15	04	iced V	Vater L	ine Release
37	700 West R	obinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058	DATE DRILLI DRILLING METHO DRILLED I LOGGED I CHECKED I DRAWN I	DD: DR BY: Voca BY: 1 BY: 1	ZG Ret Po X-Dill	ioh//	W		FOR	Avusa unu

			BORIN	IG RECC	ORD	SB	-16	-				
EOLOG.	DEPTH		LITHOLOGIC DESCRIPTIC	DN		i i			SAM	PLE		REMARKS
UNIT	(FEET)	GROUND SURFACE:	32.34	DELINEA	กาพ	UNIFIED SOIL CLASSIFICATION	<b>GRAPHIC LOG</b>	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: PPM AIR: PPM
	0	0-1' B	UKRY KNE, DR. WITHW MATRIX	t (ML) y Rouk		ML			0		1000	0
	-		REFUSA- ROCK				Lat Long 1			-		
	5 -	- 1	TD= 1									5 -
	10 -		- 11					(				
	15											45
	15	Supra al Es										- 15 -
	20 -	SAMPLE: O-1-0	927									20 -
_	25						1					
	30											30
												- 11
	35				PROJECT	NAME					_!	35 -
		CME CONTINUOUS AUGER SAMPLER STANDARD PENETRATION TEST UNDISTURBED SAMPLE WATER TABLE (24 HOURS)	WATER TABLE (TIME OF LABORATORY TEST LOCA + PENETROMETER (TONSA NR: NO RECOVERY	(TION	Novo - O PROJECT BORING NI	NUMBER	NVC	NM21		iced V	Vater	Line Release
	- 3700 West R		<b>AMIRA</b> , Oklahoma 73072 • 405-701-5058	D	DATE DRILL RILLING METH	ED: OD: BY: BY: BY:	201	-16 2022 ush/A		HPY H TE AWING PM	NO.:	AVLEA

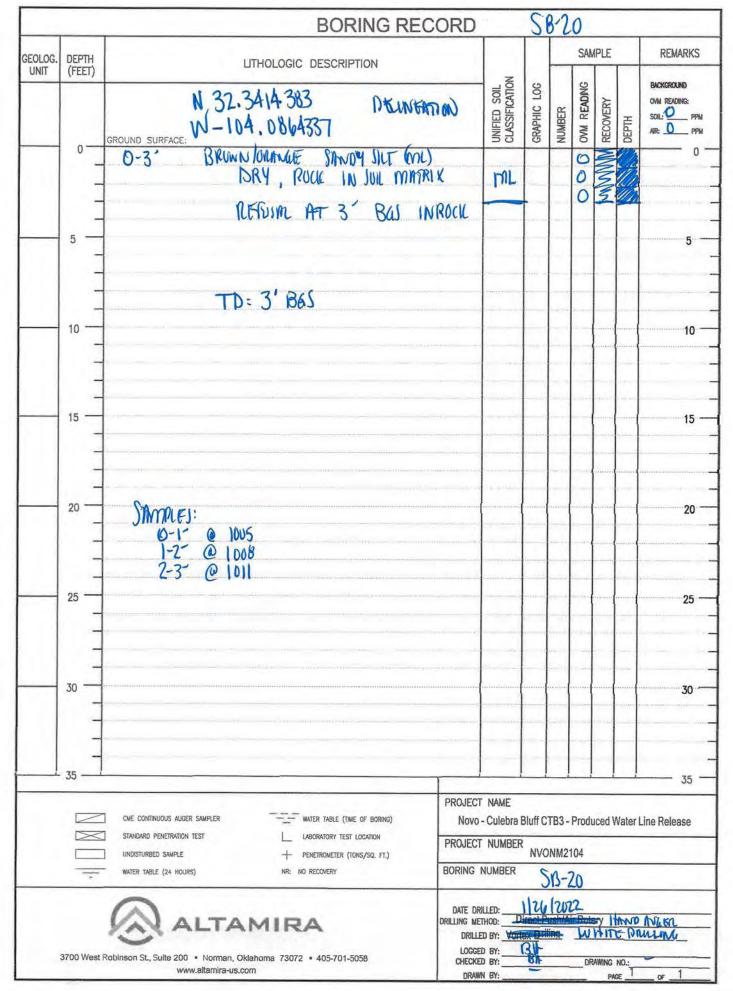
		BORING RECO	RD	SB	-17				
EOLOG.	DEPTH (FEET)	LITHOLOGIC DESCRIPTION	-			SAN	IPLE	_	REMARKS
		N 32.341 3644 DEINEMUN W-104.0841555 GROUND SURFACE:	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: PPI AIR: PPI
	0	0-3' BROWN SIMPLY FILT (M), USRY FINE, DRY, RUCK IN SULL MITTR	IX ML			000	MUNNIN		0
	7	REFURN IN ROCK AT 3 BI	v			v		-4	
	5	TD= 3 865							5
_	10								10
_	15				111				15
	20	JAMPLES 0-1- @ 1022 1-2- @ 1025 2-3- @ 1027							20
-	25					·			25
	30								30
						1 1			
;	35	CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING)	ROJECT NAME Novo - Culebra I	luff C1		Produ	I red V	/ater	35
		STANDARD PENETRATION TEST LOCATION PI UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ, FT.)	ROJECT NUMBER	_			1000 1		110 1101003C
37	700 West Re		DATE DRILLED:	24	ah/A	NH		RW	Wate

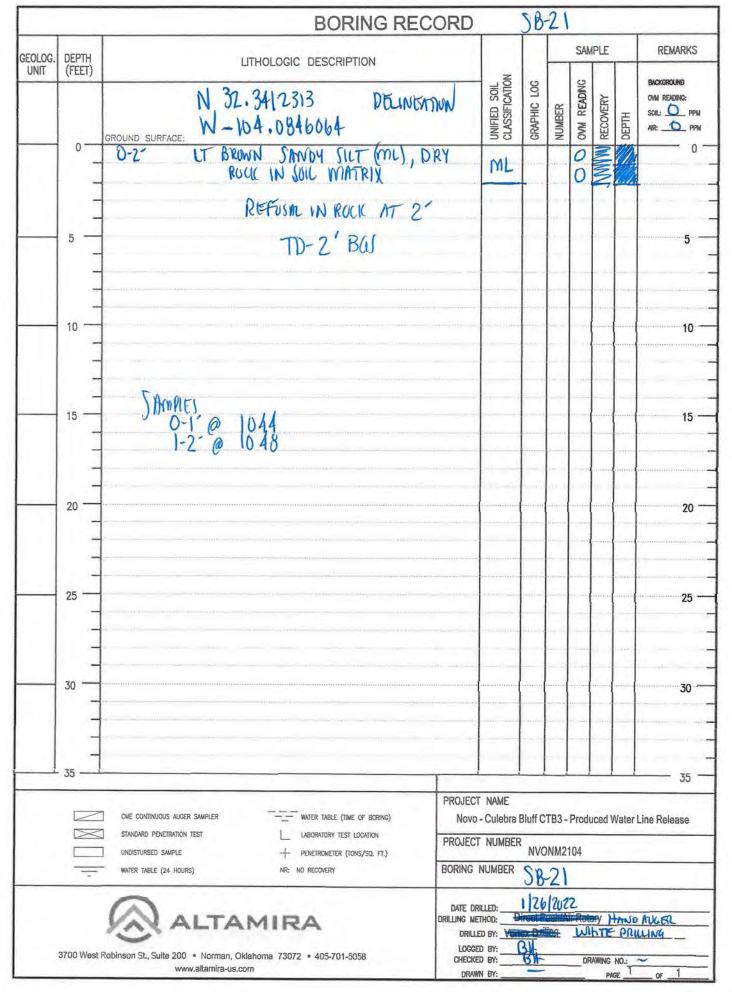
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			BOF	RING REC	ORD		) B-	18	2			
EOLOG. UNIT	DEPTH (FEET)	LITH	IOLOGIC DESCRIF	TION					SAN	IPLE	_	REMARKS
	GR	N 32-3404 W-104.08		DEUNERT		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: O PPM AIR: O PPM
	0	DARIL BROW HARD	N SANDY (HC , DRY , RUCH			CL		(atom)	0000	MINNIN		0
	_			TT 3' IN R	.Ock							
	5 -		TD= 3	3' Bas								5
_	10 -											10
_	15											15
		SAMPLES:										
	20	SAMPLEJ: 0-12104 1-2-010 2-3-011	07 11		••••••							20
	25	1										25
_	30											
		ne ne se su se		10) (P = 108) 								
	- 35						-	-			-	75
		CME CONTINUOUS AUGER SAMPLER STANDARD PENETRATION TEST UNDISTURBED SAMPLE WATER TABLE (24 HOURS)	LABORATORY TEST PENETROMETER (TI NR: NO RECOVERY	LOCATION	PROJECT Novo - PROJECT BORING N	Culebra I NUMBER	NVC	TB3 - DNM21 3-18	104	uced V	Water I	35 Line Release
	3700 West Roh	ALTAN		5058	LOGGED	HOD: BY: BY:	26 Incel P	201 USMA	ir Rote	TE	DRU	O AULOR
	3700 West Robi	nson St., Suite 200 • Norman, Oklaho www.altamira-us.com		5058	Drilling meti Drilled	HOD: BY: BY: BY:	irect P ex Dril	ush/Ai	WH	AWING	DRU	



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GEOLOG.	DEPTH			14.1			SAM	APLE		REMARKS
UNIT	(FEET)	UTHOLOGIC DESCRIPTION N 32.34199 W-104.08566 GROUND SURFACE:		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	ОЕРТН	BACKGROUND OVM READING: SOIL: PR AIR: D P
	0 	(0-3) 1005° Dry Sme Soul & Si 1. Tillish Brown (3-14.1) Reddish Brown Sme sould with caliching	1] {s://	ML	0		000000		XXXX	
					n (and an and an () for a straight an a straight an a straight an a straight an	100 - 11 100 - 10 100 - 10	000000000000000000000000000000000000000		X X X X X X	10
	15	(H.5=15) TAN fore sand & call pry 10000 up to 0.5" grave	ickiu N	Sm			2.1		X	15
	20	Sendle true 5 1-2 1028 2-3 1029 34 1030 4-5 1031 6-7 1034				- 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				20
	25	8-9 1035 9-10 1036 10-11 1040 11-12 1041 12-13 1042					2 (1) - 2040 - 2040 - 2040 - 2040 - 2040	( e ) (		25
	30	13-14 1043 14-15 1044		**************************************	1999 - 19					30
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST LOCATION UNDISTURBED SAMPLE PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	PROJECT I Novo - ( PROJECT I BORING NU	Culebra Bl	NVON	IM21	04	ced W	ater Li	35 ine Release
37	700 West R	obinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058	DATE DRILLI DRILLING METHO DRILLED I LOGGED I CHECKED I	ED: Do:Dire BY: BY:	1/20 ect Pus	5/ sh/Air	Rotar		no	alb2-

1		BORING REC		T			CAL	IPLE		REMARKS
OLOG. JNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION		z		-	-	1		
		N 32,34083 W-104.08624	UNIFIED SOIL	CAIIO	GRAPHIC LOG		OVM READING	X		BACKGROUND OVM READING:
	5 - 1	W-104.08624	FIED		APHIC	NUMBER	M RE	RECOVERY	DEPTH	
	0	GROUND SURFACE:			GRJ	N	8	REC	DEI	Alic Pr
	U _	(0-10) Reddish Boscon for-	sal M	L		(144) L				and the grant and
	-	Ssilf Somo imostore fragments	900			-	() (199	14		
	-	and the second		-			\$	2	2	- (n=1-1-1)
					1111 -		50	14	XX	to series
	5		et part parts				1. 100	C)	1	5
	-		and the set of the set			25-11	0.0	Û	X	
	-	na 1000 mm - an an gran ann a' an an a' an			(10/k =		6.0	Y.	X	a)
	-	(19-15) ton Biesand fait	4	- sector	iiia	è		11	r.	
	10	(10-15) Ton Bre sand of sil	sel ML	-			00	S.	X	10
	_				-			U.		
	-	- the estimate of the left to shall be an end of the second		-		e i	0.0	U.	1	
	-	the series of the second process of the second s		-	-	÷(r);	0.0	(h)	~	and the local designed in
-	15	TD= 15 B65		-		-	2.0	240	X	15
	]					C. S. COL			- (1999)	and a local sector of
	_	the set of the set of the set of the set				_	_			
	-	en e la seconda de la seconda de seconda de la seconda competencia.		-		u			-	
-	20 -	sample tans								20
		3-4 0907	**************************************				-	e-said	10.02	
	_	4-50909								
	-	6-70719								
-	25 —	10-11 0929	in the second second second				{			25
	-	12-13 093/			6.00	ini				-
	]	14715 0933		-			-	0.00	1966	/ headfaller to and the
	_	and and the second s								
-	30 -				_					30 -
	-	e needata en el serie en anter en anter el serie de la serie d			10 mg					
	1	a and and a second s	+; (i)(1);; (*i) ; (*i) ; (*i) )			-	-			
	1	where the state of the state of the set of the state $\hat{f}_{\rm eff}$ and $\hat{f}_{\rm eff}$ are set of the state of the	stee liter hand bed in					-	ine- at	ter state and a se
1	35						1	1		35 -
			PROJECT NAME	_	-		_	_	_	55
		CWE CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING)	Novo - Culet		Iff CT	B3-1	Produ	ced W	Vater I	ine Release
	$\bowtie$	STANDARD PENEIRATION TEST	PROJECT NUM						- envi la	
		UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.)		1		VM21	-		-	
_		WATER TABLE (24 HOURS) NR: NO RECOVERY	BORING NUMBE	R	Si	3-	5			
			DATE DRILLED:	4	12	81	20	22	2	
		ALTAMIRA	DRILLING METHOD:				Rota	ry		
2	700 West D	objects St. Suite 200 - Names Office States	DRILLED BY:	onex	Unit	ing l	5	5-	220	the
3	100 west R	obinson St., Suite 200 * Norman, Oklahoma 73072 * 405-701-5058 www.altamira-us.com	CHECKED BY:	B	H		DRA	WING N	VO.:	-19

		BORING RECOR		-	-		1	-1	
eolog. Unit	DEPTH (FEET)	LITHOLOGIC DESCRIPTION	z		-	-	IPLE		REMARKS
		N. 32.34160 W-104.08545	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	OVAN READING: SOIL: O PPM AIR: O PPM
	0	GROUND SURFACE: (0-3) 10050 Rockingh Brown Fre Sond I Solt Dry 10050 Some grave (Fragmonts (2-6) Ton free sond I silt 1000 ily Some grevel fragmants (6-10) calichie & fine sont 1000 pry tisht TAW	30 ML			00	Child Children	· · · ××	0
	5 -	(6-10) calichi- + fine sous lac. pry tisht TAW	SM			0.0	1 de	XX	5
	10					00	2	×	10
		TD= 10'B65							15 -
	20	SAmple fores 3-4 1420 4-5 1421 6-7 1424 89 1420							20 -
	25 — 	9-10 1429							25 -
	30 —								30 -
_	- 35	PR	OJECT NAME		]				35 -
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.)	Novo - Culebra OJECT NUMBE RING NUMBER	RNV	CTB3	2104	duced	Water	Line Release
	3700 Wes	ALTAMIRA		128 Direct Intex D	20 Pushi	22 Air Ro	DRAWING	G NO.: PAGE 1	

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-		BORING RECOR		-	1	-			0510010			
geolog. Unit	DEPTH (FEET)	LITHOLOGIC DESCRIPTION	7			SAM		-	REMARKS			
		N 32.34133 W-104.08466 GROUND SURFACE:	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER '	OVM READING	RECOVERY	DEPTH	BACKGROUND OVAL READING: SOIL: (0) PPN AIR: (0) PPN			
	0 	(O-2) Redulish Brown Fine son 8 Silt Dry 10050 gruss Nootletts present (2-6) Tan fine soudtsilt Dry 10050 some grazel present (8-10) Calichie & Sise soud Dry 10 Tight Ian	ML			00	A SALES CONTRACTOR	× × × ·	0			
		TD= 10 B6S	Sm			00	Non Non	X·XX	۰ 10			
	-		· · · · · · · · · · · · · · · · · · ·									
	15	TD=10'B65 3-4 17/6 4-5 15/8 6-7 1520							15			
	20	4-5 1518 6-7 1520 89 1523 9-10 1524							20			
	25								25			
				· · · · · · · · · · · · · · · · · · ·					30			
	- 35	PRC	DJECT NAME						35			
		CWE CONTINUOUS AUGER SAMPLER	Novo - Culebra Bluff CTB3 - Produced Water Line Release PROJECT NUMBER NVONM2104 BORING NUMBER SB-7									
	3700 West	ALTAMIRA	DATE DRILLED:									

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		BORING RECORD						SAMPLE			
EOLOG.	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				-				REMARKS	
	0	N 32, 34164 W - 104.08542 GROUND SURFACE:	UNIFIED SOIL	CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVAN READING: SOIL: PPM AIR: PPM	
	5	(0-2) Reddingh prown & silt some grant pry (2-12) TAW free sand & sil Loose some gracel	fine soul loose F Dry M	L			000000000000000000000000000000000000000	AND	XXXXXX	5 -	
	-	(12-15) Fine soud & sht how Itsht Reditsh TAW	e DrySr	1			50	NUNIVIII II	XXX		
		TD= 15 B65 Sample times 2-3 1346 3-4 1350 4-5 1353 6-9 1355 8-9 1354 10-11 1350 12-13 1400									
	25	17-13 1400 14-15 1403									
	30					111					
	35			1			-1		1	35 -	
		CME CONTINUOUS AUGER SAMPLER	PROJECT NAN Novo - Cule PROJECT NUI BORING NUME	ebra E MBER	NVC	твз - DNM2 <b>В-</b>	104	iced V	Vater I	Line Release	
	3700 West F	Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058	DATE DRILLED: DRILLING METHOD: DRILLED BY: LOGGED BY: CHECKED BY:		rect P	25 ush/A	ir Rola	20 ary AWING	De	22 8a/67	

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BORING RECORD											
GEOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION			SAMPLE				REMARK		
	(121)	N 32.34167 W-104.08617 GROUND SURFACE:	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVAL READING: SOIL: 0		
	0	(G-2.5) Fresand & Silt In ternitte pebbles moist stedligh Brown (25-11) Calickio Very well remon tell fige sand & Silt Baddish Brown N 11	X			5 @ 0.0	and the second se	XXX			
	10	(11-15) finesond + silt some Factured limestone Rock very will Command TAN			in same	0.0		X	1		
	-	Command TAN	SM			0.0	A States	XX			
	15	TD= 15 BGS Sanglo trie 3-4 1644									
	25	4-5 1656 67 1700 8-9 1707 10-11 1711 12-13 1714 1415 1719		eret ( + ) w)					2!		
	30 -								30		
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) NOV	PROJECT NAME Novo - Culebra Bluff CTB3 - Produced Water PROJECT NUMBER NVONM2104					35 Line Release			
		STANDARD PENETRATION TEST LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY BORING DATE I DRILLING DATE I DRILLING DATE I DRILLING DATE LOG	PROJECT NUMBER								

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		BORING RECOR	D						
EOLOG.	DEPTH	LITHOLOGIC DESCRIPTION				SAM	PLE		REMARKS
UNIT	(FEET)	N 32.34124 W-104.08425 GROUND SURFACE:	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND Own Reading: Soil: ppm Air: ppm
	0 	GROUND SURFACE: (0-3) Leddish Brown Ane SAMD & Silt TOOSO Day 55 me Stade (3-6) Reddish Brown Fine Som SSILT Hard compacted Oasily Crembles 3 one gravel (6-10) TAW Fine Sam I d Silt Diy Loose with Lock fragments	mL			0	and the state of the	X	0 ·
	- - 10	(G-10) TAW finesand dsilt Diy hoose with Rock fragments (O-10) light ton calichie & finesand Dry 10050 Rock Fragments	Sm			2.2	AL AND	XXXX	10-
		TD= 15' BGS				5.0		X·X	15
	20	TD=5-B65 SAmpletus 4-5 1545				1-1-1-1 1			20
	25 — - -	8-7 1549 10-11 1552 12-13 1554 14-15 1558							25
	30 — 								30
	- 35	   PRI	OJECT NAME						35
		STANDARD PENETRATION TEST LOCATION PROTOCOLOGY TEST LOCATION PROTOCOLO	Novo - Culebra OJECT NUMBE RING NUMBER	R NV		2104		Water	Line Release
	3700 Wes	ALTAMIRA	ATE DRILLED: DRILLED BY: Vo LOGGED BY: CHECKED BY: DRAWN BY:	Difect	Push4	Air Ro		SF NO.: MGE T	A Zelo

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OLOG.	DEPTH		UTHOLOGIC DESCRIPTION					SAM	MPLE	6.	REMARKS
JNIT	(FEET)	N - 32.34 185 W 104.085 GROUND SURFACE:	34		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND CVM READING: SOIL: PPI AIR: PPI
	0	6-3) Bran Some Srevel (3-4) Tam f (4-12) white gravel true	n louso finesan Bresalts: It so finesal calich s: It	+ 5. /f mogravel il somo				0000		XXXX	0 
					Sm	(111) = (710) =		0	China Land	X	
			vel Jon fre souls Grevel Roundes		mL		12 () 12 () () () () () () () () () () () () () (	0		X .+	10
-	15		Che & fine Jane 19 57 - 19/ TD= 15 B65	10050	SM			0		X	15 -
	20	3-4 1/26 4-5 1/24									20 -
_	25	8-5 1136 10-11 1142 12-13 1147 14-15 1204					•				25 -
3					···· ··· ··· ···			i one netrice vetacio reacto reacto	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		30 -
<u> </u>		CME CONTINUOUS AUGER SAMPLER STANDARD PENETRATION TEST UNDISTURBED SAMPLE WATER TABLE (24 HOURS)	WATER TABLE (TIME OF BORING) L LABORATORY TEST LOCATION + PENETROMETER (TONS/SQ. FT.) NR: NO RECOVERY	PROJECT Novo - PROJECT BORING N	Culebra Bl		-	-	ed Wa	ater Lir	
	J	<b>A</b>	MIRA	DATE DRILL DRILLING METH			h/Air I	22 Rotary			

			BORING R		-		-	SAM	PLE		REMARKS
eolog. Unit	DEPTH (FEET)		HOLOGIC DESCRIPTION		ION	90	-				BACKGROUND
		N 32.34123 W-104.0842	3		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	ovm reading: scil: <u>0</u> ppn air: <u>0</u> ppn
	0	GROUND SURFACE: (0-5) Br Dry 1005e	own silfsfm	esard			-		MAN		0
	-	(	£		ML		tan (	6		N	
	5 _	Some gravel	n Fre sand & Dry loose	SUIT	SM			0000		XX	5
		(7-10) RUCIE	Acche Fragmontes	Dry S	Sm			00		X	
	10 -	Adoles = 0.2.	star starting								10
	-										
	15										15
	-	TD-10	· 66G								
	20	Sample + 16	37				-13-11-14				20
	25	5-6 16 6-7 16 9-10 16	38 43								25
	-		/							(instant	
_	30										30
	-	· · · · · · · · · · · · · · · · · · ·									
	- 35 -								-		35
		CME CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	PROJECT N Novo - C		Bluff C	твз -	Produ	uced	Water	Line Release
		STANDARD PENETRATION TEST	LABORATORY TEST LOCATION + PENETROWETER (TONS/SQ. FT.)	PROJECT N		NVC	DNM2		-		
	क	WATER TABLE (24 HOURS)	NR: NO RECOVERY	BORING NU	MBER		SB	- 1	8	-	
	3700 West F	Robinson St., Suite 200 - Norman, Oklah		Date orille Drilling metho Drilled e Logged e Checked e	00: D 37: Vort 37: /	lirect P lex Dri B H		5	ary Caling	M 2	a 12

		BORING RECO	RD		_				
Eolog. Unit	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				SAM	IPLE		REMARKS
		N 32.34077 W-104.08620 GROUND SURFACE:	UNIFIED SOIL	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVAI READING: SOIL: PP AIR: PP
	0 	(5.175-11) Calichied She sand (5.175-11) Calichied She sand White a ith Keldish Brown striat Some peasite pession	10-5 ML		1446 - 1 14 - 1 14 - 1 14 - 14	0.0000	State and a state of the state	XXXXX	5
	10	(11-15) Calichie & Tem free sand 10058 dry some 0.25 "Calichia po	Sm		1999 1999 1997 1997 1997 1997 1997	00	ROW WILLING	A K X	10
	15				and Anna ann Anna ann	0.0	Willin .	X	
	20	TD- 15'BGS sampletmes 0-1 0949 1-2 0950 23 0951 34 0752 4-5 0953			-3-1 	(*************************************			
;	30	67, 0954 8-9, 0955 16-11, 0958 12-13, 0959 14-15, 1606					· · · · · · · · · · · · · · · · · · ·		30 - 30 -
13	35								35 -
		CME CONTINUOUS AUGER SAMPLER	ROJECT NAME Novo - Culebra B ROJECT NUMBER RING NUMBER	NVON	IM21(	04	ed Wa	ater Li	ne Release
370	00 West Ro	ALTAMIRA	DRILLED BY: Vorte	ect Pus	Air	Rotary	2 2 ING NO PAGE	-	alta

		BORING REC	ORD	_					
eolog. Unit	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				SAN	IPLE		REMARKS
		N 32.34183 W-104.08522 GROUND SURFACE:	UNIFIED SOIL	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVM READING: SOIL: O PI AIR: O PI
	5	(0-2) Redulish Brown Fress & Silf 10050 Dry Some grove (2-9) TAN Fino Sond d: pri 10050 Dome grave) (9-8 calichis Finosal dsil Dome gravel white dry 10 (0-10) free Sond & Silt some g.	silt SM			000000000000000000000000000000000000000		XXXX X.	
	10 -	ory lose TAN			(40) i (	00	1/1	XX	
	15	TD=10-1865 Somple frues 0-1 1303			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				- 15
	20	$ \frac{1-2}{2-3} \frac{13}{13} \frac{0.4}{0.5} $ $ \frac{3-4}{13} \frac{13}{14} $ $ \frac{13}{15} $ $ \frac{13}{5} $							20
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	30			in and a second s					
3		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST L LABORATORY TEST LOCATION UNDISTURBED SAMPLE + PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	PROJECT NAME Novo - Culebra PROJECT NUMBER BORING NUMBER	NVON	M210		! ed Wa	ter Lir	35 -
370	00 West Rot	Dinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058 www.altamira-us.com	DATE DRILLED: DRILLING METHOD: DRILLED BY: LOGGED BY: CHECKED BY: DRAWN BY:	2 g	3/2 h/Air	22	WG NO.	ab	5 <u>-</u>

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APPENDIX E Field Documentation

Page 115 of 377 Received by OCD: 5/20/2022 3:34:57 PM Page: \_\_\_\_\_ of \_\_\_\_\_ ALTAMIRA Client: Nove Date: 11/21/2021 Project: New Sattwater Lelease By: CB 0200CT deput for site to meet of with board of Nowo 1000 MT Ansie & site net of with Board de & facility flue brode to leak grea walked most of leak area then Bral departed 10 3 smt, colled by an to discuss mapping & skiling oct pormuter Level foot 10 4 The Begon Stating out perimited of foot print of leak She with 3' wood Staties with green Flagging the statch 1355 compluted Stating Teak boot print. Begon on stile statch 1440 completed site Sketch. Began taking Photos of 1508 completed photos collected Eps coodinute of Release point N 32.3411981 15 30 depart site for Formit. Called proyent Bruch 1

Received by OCD: 5/20/2022 3:34:57 PM Page 116 of 377 Page: of ALTAMIRA NOVD Client: Date: 1212022 CULEORA BLUF SOIL ASSESSMENT Project: Bv: BLM NOTFLOTEL 1/20/22 - EMAR TO JIM MOOS - REJENT C.141 NOTIFICATION NONCO 1/20/22 - 43-HOUR - 575.748.1283 (DHO NOT WORK) ADRITESIA I FRICE EMARED RUN HAMLER & RAMING MALUS 45 USE NUMBER 505.629.616 - 112112022 BD@1150 LANATULK -LEFT VM - REIENT ENAR PER RUB H. IN STRUCTIONS 1/20/22 ONE CALL - NMBIL. ORG OR 1800-321. 2537 USE WHITE DIMUNK J TICHET & TO CREATE ALTAMIZA CONF # 22JA 200532 1/21/22. WHITE DRILLING. NEIGHT SIDPE

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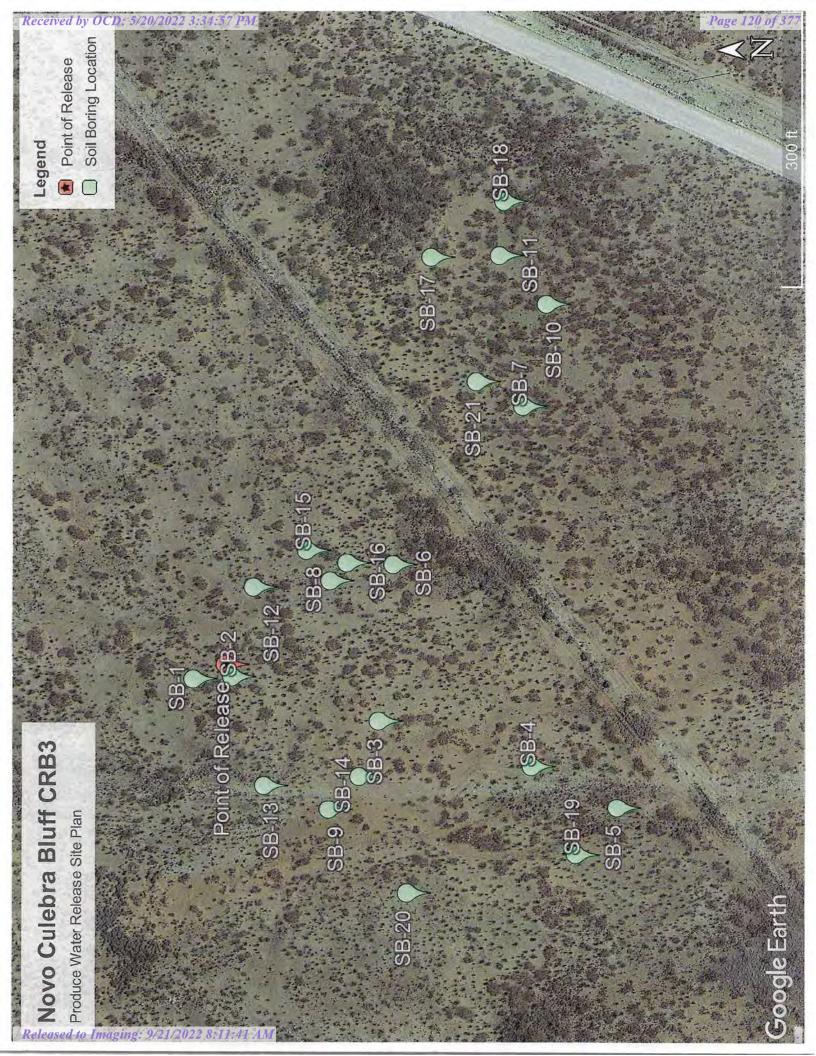
by OCD: 5/20/2022 3:34:57 PM		Page 117 of 377 Page: of
ALTAMIRA	Client: NUVO Project: CULEBRA BLUFF - SOILASSEISMENT	Date: 125/2022 By: BH

. . . . . . . . .

OBLO - ARRIVE UNSITE JSA ORLANDO & BRYAN WURK TO MARK SUL BURING LOLAMUNS & REMARK RELEASE BUINDINRY AREAS WI WWO JTAKES (GREEN FLAG)
* EXTENSIVE AMOUNT OF FIELD ANVINES, APPELINES BEING INSTALLED IN AMER & THROVGU REGEASE AMERA, UTILITES
MAY HAVE TO MURIFY SUL BUILING INSTALLATION TO HAND AUGERZING DUE TO PUPELINES, UBSTICALS, TREADERS - WILL WURK W/DRILLER & PUPELINES TO ENSULE SAME SAMPLING.
940: SET VP AT SUB-1 LOCATION (DEEP BURING TO 50) - WATER EN COUNTERED @~47
4 PID CALIBRATED TO 100 ppm 150 BUTYLENE MEASURE PID REMAINES FOR SAMPLES COLLECTED - EIPLOCK BAG-EOURL, MEASURE
SOUL SAMPLES: PACE ANALYTICAL: (BTEX 8260, TPH GRO, DRO, NRO, CHURIDES) SOUL LIDHOLOGY & SAMPLES DOCUMENTED ON BOAING LOGS
H ORLANDO MARKINE PERIMETER OF RELEASE AREA W/FULCRUM-GPS-MAPPINE TO ACCURATELY OUTLINE RELEASE AREA.
1105: SET VP UN SBZ LOCATION @ PUNT OF RELEASE
1210: WHATE DALLING PLUG THE SB-1 DER DERMIT, PLUG SB-1
1815: SETUP AT SB-3 LOCATION IN SUURCE AMER - USE HAND MULTER TO ADVANCE BURING RIC NUT ACCESSABLE / NOT SAFE - DECON HAND AUGER - REFUSAL @ 4 3W
1345: SECOND CREW SET UP AT 584 LOCATION - IN JULICE AREA. HAND AVIER, DECON REFUSIN IN ROLL @ 2' BGJ
1415 SET UP AT SB-6 LOCATION - IN SULVICE AREA - HAND ALLER - DECON-REFUSAL@
1435 SET VP AT SB-B LOCATION - IN SULLICE AREA- HAND AUGER- DELON REFUSAL IN ROCK AT 1'BGS
1498 SETUP AT SB-5 LOCATION - IN SOURE AREA - HAND AVGER- DECON REFUND IN RUCL AT 1.5' B6S
1518 SET UPAT SB-9 LOCATION- IN SUVIRCE ATREA - HAND AUGER- DECON REFUSAL IN POCK AT 2.5' Bas

1.77 5	ETVP AT SB-1	10 LOCATION 1 REFUSAL	AT 2.5 Bas- N SWRIE ARE AT 4 Bas-1	A- HOND MULLER- ROLK	DECON	
627: 5	ETUP AT 58-11	Location IN	SUDICLE MACH-	HIMU MULGAL-	DELON	
	Spanning Willing	ined on ice	IN COULSE - NO	shipping to di	<i>ty</i>	

ALT	2022 3:34:57 PM AMIRA	Client: NOUU Project: <u>CULEBILA</u>	13WF - SOIL ASSETSME	Date:	Prige 119 of 3 126/2022 BH
WEAT	THER: CLOUT INSTITU SOU WILL HAVE T		ATNG ND ITERAL DELINGHTAIN BORINGS DVE TO TILI AFJ/LINES - TRE		
· CA	UBRATE PID TO	100 ppm 150BUTY	OR TO USE AT EAL LEVE STAVIONICO ZANGEE PAN RUAJ	Ht. CC CU.DAN	
852: [FT	TVPON SB-13 VPON SB-12 VPON SB-15 VPON SB-16 VPON SB-16 VPON SB-14	Itano Augen	- REFUSIAL AT 1' - NEFUSIAL AT 2'BW - NEFUSIAL AT 2'BW - NEFUSIAL AT 1'BW	BUJ - HARD - HARD RUCU I - HARD RUCU I	RUCIC AREA NGA NGA
		LOCATION - ITAN LOCATION - ITAN	p AVEOR 10 AVEOR - PEGU	me3	
n	TUPON SBZ	1 LOCATION - HAN 1 LOCATION - HAN 8 LOCATION - HA	o Augen		
1135 011	TE TO ODELSA	TO JULY STANDLE			
SA	MILES IN COLO	r whice - coc	- DUCS		
BURIN	se a sample p	ETHILS ON SUIL	. Runing (cb)		
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Altamira - Angleton, TX			Bryan Haney	Bryan Haney 4001 Technology Drive Ste 120	Ste 120	Pres Chk				193			Co	.000
4001 Technology Drive, Ste 120 Angleton, TX 77515			Angleton,	Angleton, TX 77515	071 210				10000000	1			PEOPLE	PEOPLE ADVANCING SCIENCE
Report to: Bryan Haney			imail To: bry is.com;Orla	Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com	mira- Altamira-us.co	ε			۶۸L				I TM 12055 Lebanon Rd Mo Submitting a sample vi	MT JULIE I, IN non Rd Mount Juliet, TN 37122 a sample via this chain of custody
Project Description: CULEBEA BLU(F Novo Ovation Pad.O. Release		City/State Collected: 1 M # M/		MM	Please Circle: PT (MT CT) ET	cle:		L	;/Im0				constitutes acknowned Pace Terms and Condit https://info.pacelabs.c terms.pdf	constructs acknowledgment and acceptance of the Pace Terms and Conditions (und at: https://info.pacelabs.com/hubfs/pas-standard- terms.pdf
	Client Project # NVONM2104 PHASE 001	PHASE 00	01	Lab Project # ALTAMIRAATX-NOVO	TX-NOVO		oPres	Ks/Iwc	тноэи	-			SDG #	
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs		ево	978A				Shipped Via: H Remarks	Shippèd Via: HedEX Ground Remarks Sample # (lab only)
SA-1 (0-1-) 1	9	SS	,1-0	175/22	957	2	XX	×	X					
6/ 1-	6	SS	1-2-6	1251251	lou4	2	XXX	1	×					
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58-1 (56-)	6	SS	5-6'	122/22/1	lous	2								
5B1 (9-100)	9	SS	9-101	125/22	1015	2	1					5		
		SS												
		SS												13
		SS												
		SS												
* Matrix: \$5. Soil AIR-Air F-Filter GW - Groundwater B - Bioassay WW - WasteWater	arks: District	2 SANYLEY	IT) CN	the pen	PENDANG				PH	Temp.	dr	COC Se COC Si Bottle Correc	Sample Receipt Ch COC Seal Present/Intact: COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	Check1ist ct:NPYN :
DW - Drinking Water Samples OT - Other UPS	Samples returned via: UPSFedEx	: Courier		- Tracki	cking #				1.100	1		Suffic VOA Ze	icient volume sent: If Applicable Zero Headspace:	ן   א א וא א י
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4001 Technology Drive, Ste 120 Angleton, TX 77515 Report to: Bryan Haney Project Description: Novo Ovation PadORelease (ULE 840	BLUFF	ity/State ollected:	Bryan Haney 4001 Technology Angleton, TX 775 Email To: bryan.haney us.com;Orlando.Gonz LOUI NG, NM	Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515 Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com us.com;Orlando.Gonzalez@Altamira-us.com	Drive, Ste 120 L15 @alamira- @alamira-us.com pT MT CT ET	Pres Chk ET	State State State State	eyre en			I10ml/syr		PEDILE PEDILE MILIU Submitting a semipung and Condition pare Terms and Condition pare Terms and parents april	PEDPLE ADVANCING SCIENCE PEDPLE ADVANCING SCIENCE <b>MT JULIET, TN</b> 12065 Lebaron M Abourt Julie, Th 37125 Submitting a sample va this chain of cortory per Terms and Conditionar And acceptance of the Peer Terms and Conditionar Visual at: https://info.paeciabs.com/hub/s/pas-standard- terms.pdf
9	Site/Facility ID #	NVONM2104PHASE 001 Site/Facility ID #	001	ALTAMIRAATX-NOVO P.O.#	OVON-X			and the second second second			NO. S.		SDG # Table # Acctnur	SDG# Table# Actnum: ALTAMIRAATX
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	of Cntrs			-				Ship	Shipped Via: FedEX Ground Remarks Sample # (lab only)
1.1-1	S	SS	, I-Q	112122	1111	0		-						
7-31	9	SS	2.3'	1/2/22	1119	2	X	XXX	×					
3.4.)	9	SS	3-4'	1 25/72	1211	2								
4.5')	y	SS	4.5'	1/25/22	1123	2	1							
( ,1-9	G	SS	, 1-9	125/22/1	1129	2								
(.6.8	5	SS	10-8	22/52/1	1133	2					12.3			
9-10')	9	SS	11-6	1/25/22	135	2								
H (5')	9	SS	14.45	1/25/22	11/0	2								
	+	SS												
		SS												
F - Filter B - Bioassay	Remarks: D	DECTRA SI	SMPILIUES	PENUM. P	AnnyIII				PH		Temp		Sample Receipt Chec COC Seal Present/Intact: _ COC Signed/Accurate: Bottles arrive intact:	ceipt Checklist /Intact: _NP _Y ate: _Y ntact: _Y
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Page 122 of 377

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			ungleton,	Angleton, TX 77515				)				PEOPLE ADVA	PEOPLE ADVANCING SCIENCE
Report to: Bryan Haney			mail To: bry s.com;Orla	Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com	nira- Itamira-us.co	ε	- 10		zhi			NIT JULIET, TN 37122 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody	ET, TN Het, TN 37122 thain of custody
Project Description: Novo Ovation Pad O Release CULE BVA	BLUFF Coll	City/State Collected:	LUNING,	NNN,	Please Circle:	cle:		L	;/IW0			constructs acknowledgment Pace Terms and Conditions for https://info.pacelabs.com/hu terms.pdf	and acceptance of the burd at: bfs/pas-standard-
	Client Project # NVONM2104 PHASE 001	PHASE 00	11	Lab Project # ALTAMIRAATX-NOVO	OVON-X		oPres	ks/jwo	тноәи			SDG #	
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ample ID	Comp/Grab M	Matrix *	Depth	Date	Time	Cntrs			0978A			Shipped Via: FedEX Ground Remarks Sample # (lab only	EX Ground Sample # (lab only)
56.3 (0-17)	9	SS	,1-0	125/22	1330	2		~	×				
58-3 (1.2)	9	SS	1-2'	125/22	1333	2	XX	×	X				
58-3 (2-31)	9	SS	2-3'	1/25/21	1337	3							
58-3 (3-4-)	9	SS	3.41	1 25 22	2421	2	13						
584 (0-17)	G	SS	1-0	1/25/72	1410	2	×	××	×				
SB-4 (1-2-)	6	SS	1-2'	12572	1415	2	×	×	$\times$				
SB-6 (0-1)	G	SS	,1-0	1/22/22/1	1426	2	XX	×	×				
SB-6 (1-2)	9	SS	,2-1	122/22/1	1872	2	X	XV	×				
SB-8 (0-1-)	9	SS	1.0	1/25/22	1415	2	××	×	×				
		SS											
* Matrix: Remarks: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste/Water	arks: DECYON		SIMMALEY	UN HOLD	1 EVDING	MA			PH Flow	TempOther	Sample Receipt of COC Seal Present/intac COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	Sample Receipt Checklist Seal Present/intact: NP Signed/Accurate: les arrive intact: ect bottles used:	$\frac{\text{NP}}{NP} \frac{\gamma}{\gamma} \frac{N}{N} \frac{N}{N}$
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4001 Technology Drive, Ste 120 Angleton, TX 77515		A A	gleton, T	Angleton, TX 77515	071 DIC (							PEOPL	Face People Advancing Science	ed by O
Report to: Bryan Haney		Em: us.c	ail To: brya	Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altarr	imira- Altamira-us.com	E	199	÷1	e AL			MTJ 12065 Lebanon Rd M Submitting a sample v	MT JULIET, TN non Rd Mount Juliet, TN 37122 a sample via this chain of custody	OCD: 5
Project Description: Novo Ovation Pad O Release	20 A RULLE Collected:		I GANNE	MM	Please Circle: PT MT CT E	rcle: T ET	1255	L.	s/Im0			constitutes acknowlec Pace Terms and Cond https://info.pacelabs. terms.pdf	constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-ttandard- terms.pdf	/20/2
Phone: 361-658-3126	Client Project # NVONM2104 PHASE 001	ASE 001		Lab Project # ALTAMIRAATX-NOVO	IX-NOVO		oPres	ks/jwc	THOP			SDG #		022 3:3
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(21-1) SB-5	SS 6	0	1-1	175 22	1457	0			×					
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SA-9 (0-1-)	G ss	0	1-1-	1/25/72	1523	2	X	XX	X					
58-9 (1-2')	6 ss		-7.	175/22	1526	2	×	X	X					
58-9 (2.2.5)	6 ss	2	-2.5	1/25/22	1574	2								
58-7 (0-1-)	(1 ss		,1-0	1125/22	1558	2	XX	×	×					
56-7 (1-2-)	G SS	1	.2.	1/25/22	1001	2	XX	X	X					
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teWater ing Water	noles returned via:				100	A LOUGH		No.	FIOW	Other	Corre Suffi	bottl ant vo	N K	
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	-													377

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Altamira - Angleton, TX	×		Bryan Haney 4001 Techno	Bryan Haney 4001 Technology Drive. Ste 120	Ste 120	Pres Chk							Band	ĉ
4001 Technology Drive, Ste 120 Angleton, TX 77515		4	Angleton, TX 77515	rx 77515									PEOPLE ADVANCING SCIENCE	CING SCIENCE
Report to: Bryan Haney			mail To: brya s.com;Orlan	Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com	ltamira- @Altamira-us.co	E			e AL	- W			MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 3713 Submitting a sample via this chain of cust	T, TN et, TN 37122 ain of custody
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Phone: 361-658-3126	N	PHASE 0		oject # MIRA	ATX-NOVO		oPres	iks/imo	THOPN	1			SDG #	
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs		and the second	09780	381			Shipped Via: FedEX Ground Remarks Sample # (lab on)	EX Ground Sample # (lab only)
58-10 (0-11)	9	SS	,1-0	1/25/22	1612	2			×					
SB-10 (1-2-)	6	SS	1-2'	1/25/22	1015	2	×	×	×					-
56-10 (7.2.)	5	SS	2.31	1 25 22	1619	2								
58-10 (3-4-)	9	SS	3.4'	1 25/22	1623	2								
SB-11 (b-1)	9	SS	1-0	22/52/1	1631	2	XX	×	X					
58-11 (1-2-)	4	SS	1-2-1	17572	1633	2	X	XX	X					
(2-3-) (8-11 (2-3-)	6	SS	1-31	1/25/12	1636	2	4		F					
58-11 (3-13)	9	SS	3-4'	Ihshe	1640	2						0		
		SS												
		SS												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater R - Binassay	Remarks:	MYSER W	SAMPRICI	CNT	but PENDING	N NK			Hđ	Temp	d	COC Seal COC Stgn	Sample Receipt Checklist COC Seal Present/Intact: _NP _ COC Signed/Accurate:	X
									Flow	Other	ar -	Bottles Correct 1	arrive intact: pottles used:	N N J
DW - Drinking Water OT - Other	Samples returned via:			Trackin	king #							Sufficie	nt volume sent: <u>If Applicable</u>	л _ N
-	L Fed	Courier		-	11 101		al and		1 14 14	10		VOA Zero Head	Zero Headspace: ervation Correct/Checke	4: -Y -N
Reinquished by : (Signature)	11/2	26/2022	1630		eived by: (Signature)	ure)			l rip Blank	l rip Blank Keceived: Y	Yes / NO HCL / MeoH TBR	RAD SCree	an <0.5 mR/hr:	
Relinquished by : (Signature)	Date:		Time:	Receive	Received by: (Signature)	ure)			Temp:	°C <sup>Bot</sup>	Bottles Received:	If preserva	If preservation required by Login: Date/Time	ate/Time
Relinquished by : (Signature)	Date:		Time:	Receive	Received for lab by: (Signature)	Signature	(		Date:	Time:	ie:	:ploH		Condition:

# Page 125 of 377

Berton, TX     Born, Ste 130     Control of the first of the	Angleton, TX         Byni Hang, Addition         Description         Descriprescription <thdescription< th="">         Descrip</thdescription<>	Company Name/Address:			Billing Information:	mation:					Analvsis /	Analvsis / Container / Preservative	/ Preserva	tive.		Chain of Custody	Page of	1
Othere, Sea 130         Tention of the sea 10         Othere         Addition         Add	Othor, SG 130         Othor, S	Itamira - Angleton, TX			Brvan Ha	New		Pres	22							1		Rece
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326         Normingeneration         Jub Project         Normingeneration         Jub Project         State         Normingeneration         Jub Project         State         Normingeneration         Jub Project         State         Normingeneration         Jub Project         State         Normingeneration         Jub Project	335         Countribute         Luit Printed at All AnnitaATX+NOVO         Luit Printed at All AnnitaATX+NOVO         Description         Luit Printed at All AnnitaATX+NOVO         Description	D.Release- CUI		City/State Collected:	LUNING			ircle: CT ET		i	s/Iwo	224				constitutes acknowledgm Pace Terms and Condition https://info.pacelabs.com terms.pdf	rent and acceptance of the ns found at: n/hubfs/pss-standard-	/20/20
Technolity Differential         TOLK         Balance         TOL         Call Balance         Call Balance         ToL         <	Currently Diff         Root 4         Currently Diff         Root 4         Tube relation Alt with marked and the marked and th		Client Project NVONM21	# 04 PHASE 0	001	Lab Project # ALTAMIRA	ATX-NOVO		oPres	i/s/jw(	THOPI	The		Received.		SDG #		022 3:3
Off         Off <td>Other         Durk GM         <thdurk gm<="" th=""> <thdurk gm<="" th=""> <thdur< td=""><td>llected by (print):</td><td>Site/Facility ID</td><td></td><td></td><td>P.O.#</td><td></td><td></td><td></td><td></td><td>N/dr</td><td></td><td></td><td></td><td></td><td>Table #</td><td></td><td>4:57</td></thdur<></thdurk></thdurk></td>	Other         Durk GM         Durk GM <thdurk gm<="" th=""> <thdurk gm<="" th=""> <thdur< td=""><td>llected by (print):</td><td>Site/Facility ID</td><td></td><td></td><td>P.O.#</td><td></td><td></td><td></td><td></td><td>N/dr</td><td></td><td></td><td></td><td></td><td>Table #</td><td></td><td>4:57</td></thdur<></thdurk></thdurk>	llected by (print):	Site/Facility ID			P.O.#					N/dr					Table #		4:57
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Matrix         Twenton         Description         Descripon <thdescripon< th=""> <thdescripo< th=""><th>Matrix         Twenty, Two manuality         Two manuality         Matrix         Standard         S</th><th>llected by (signature):</th><th>Rush? (I Same Di</th><th>Lab MUST Be h av Five D</th><th>Votified) av</th><th>Quote #</th><th></th><th></th><th></th><th></th><th>lmOf</th><th>1</th><th>_</th><th>-315</th><th></th><th>Template:T201 Prelogio: P900</th><th>884</th><th>1</th></thdescripo<></thdescripon<>	Matrix         Twenty, Two manuality         Two manuality         Matrix         Standard         S	llected by (signature):	Rush? (I Same Di	Lab MUST Be h av Five D	Votified) av	Quote #					lmOf	1	_	-315		Template:T201 Prelogio: P900	884	1
meter         Consideral         Matrix         Detail         Time         First         Resolutions         First KC COUNDING           1         1         5         5         1	meter     Considerable     Matrix     Date     Time     Considerable     Considerable <thconsiderable< th="">     Considerable     Cons</thconsiderable<>	>	Next Da		(Rad Only) / (Rad Only)	Date Res	ults Needed	No.	10.000 - 10-		X X 3T8					PM: 134 - Mark	W. Beasley	-
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F-Filter     PH     Temp     PH     Temp     Sample Receipt Checklist       B - Bloassay     B - Bloassay     PH     Temp     Coc Seal Present/Intracti. NP     Y       N     B - Bloassay     Flow     Other     Coc Seal Present/Intracti. NP     Y     N       Imarks:     B - Bloassay     Flow     Other     Coc Seal Present/Intracti. NP     Y     N       Imarks:     Samples returned via:     Tracking #     Flow     Other     Coc Seal Present/Intracti. NP     Y     N       Imarks:     LUPS _ FedEX _ Courier     Tracking #     Flow     Other     Coc Seal Present/Intracti. NP     Y     N       Imarks:     LUPS _ FedEX _ Courier     Tracking #     Flow     Other     Coc Seal Present/Intracti. NP     Y     N       Imarks:     LUPS _ FedEX _ Courier     Time:     Received by: (Signature)     Trip Blank Received: Yes / No     PHCL, MeoH     TEAPHISTENE     Y     N       Ignature)     Date:     Time:     Received by: (Signature)     Temp:     C     Buttes Received: Yes / No     PHCL, MeoH     PHCL, MeoH <td>F- Filter     Remarks:     DOM IMMULUI INULUI INULU</td> <td>1-01 61</td> <td>9</td> <td>SS</td> <td>,1-0</td> <td>1/2012</td> <td>1 956</td> <td>2</td> <td>X</td> <td>X</td> <td>×</td> <td>Re l</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>	F- Filter     Remarks:     DOM IMMULUI INULUI INULU	1-01 61	9	SS	,1-0	1/2012	1 956	2	X	X	×	Re l	_					
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Image: Samples returned via:     Tracking #       UPSEdEX _ Courier     Tracking #       UPSEdEX _ Courier     UPA Zero HeadSpace : <u>Lf Applicable</u> Y N       Induction     Date:       UPSEdEX _ Courier     Image: Time:       Received by: (Signature)     Trip Blank Received: Ves / No       PESSer variation Correct/Checked: Yes / No       Presser variation Correct/Checked: Yes / No       Pate:     IGS 0       Induction     Date:	Samples returned via:     Tracking #       UPS _ FedEX _ Courier     Tracking #       UPS _ FedEX _ Courier     Tracking #       Not _ UPS _ FedEX _ Courier     Voi Ze ro Headspore:       Not _ UPS _ FedEX _ Courier     Voi Ze ro Headspore:       Not _ UPS _ FedEX _ Courier     Voi Ze ro Headspore:       Not _ UPS _ FedEX _ Courier     Time:       Received by: (Signature)     Trip Blank Received: Yes / No       Not _ UPS _ FedEX _ Courier     Pace:       Not _ UPS _ FedEX _ Courier     Pace:       Intuine:     Received by: (Signature)       Intuine:     Received by: (Signature)       Intuine:     Received by: (Signature)       Intuine:     Received for lab by: (Signature)       Intuine:     Received for lab by: (Signature)       Intuine:     Received for lab by: (Signature)										Flow		Dther	1	Bottles ary Correct bot	cive intact: ttles used:		
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Report to: Rrvan Hanev		En En	nail To: bry: .com;Orlan	Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altan	tamira- @Altamira-us.com	F	1201	- Marrie Marrie	اد	12:00			MT JULIET, TN 2005 Lebanon Rd Mount Juliet, TN 373	ET, TN uliet, TN 37122
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Phone: 361-658-3126	Client Project # NVONM210	Client Project # NVONM2104 PHASE 001		Lab Project # ALTAMIRAAT	ATX-NOVO		06165	s/Im0	HOĐN			<u>s</u>	SDG #	
Collected by (print):	Site/Facility ID #	# Bunk		P.O.#					/dm	RIE			Table # Acctnum: ALTAMIRAATX	AIRAATX
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	2		The second	0978/			<u>-01</u>	Shipped Via: FedEX Ground Remarks Sample # (lab only	EX Ground Sample # (lab only)
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58-20 (2-3-)	5	SS	1.31	1 26 22	101	2								
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(-2-1) 11-85	6	SS	1-2-1	1/26/22	1025	2	X	XX	X					
SB-17 (2-3-)	6	SS	2.71	1 20122	1201	2								
58-21 (0-12)	6	SS	1-0	126/22	1044	2	XX	X	X					
58-21 (1-2-)	6	SS	1-2'	1/20/22	1048	2	X	XX	×					
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F - Filter B - Bioassay	Remarks: DK	DIEPTRI SAMMER UN HOLD	ND CIV		PENDING				PHFlow	Temp		Sample Receipt COC Seal Present/Inta COC Signed/Accurate: Bottles arrive intact Correct bottles arrive intact	Sample Receipt Checklist 1 Present/Intact: NP med/Accurate: arrice intact: bottles	NPX
DW - Drinking Water OT - Other	Samples returned via: UPSFedEx	ia: Courier		Tracking #	# 8							Sufficient volume sent: <u>If Applicat</u> VOA Zero Headspace:	olume sent: If Applicable dspace:	ж К
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Soil Assessment Scope of Work Detail Culebra Bluff CTB3 Produced Water Release

#### **Prior to Field Work**

- 48- hour Notification to OCD and BLM
- Conduct One Call 4/19/2022
- Order Lab Cardinal Labs 4/19/2022
- Order PID from Pine 4/19/2022
- Driller planning and meeting 4/19/2022

#### In Field

- Mark boring locations
- Identify utilities and piping with pipeline companies

#### **Soil Boring Installation**

Install soil borings as shown below. Each hole will be cleared for utilities using an airknife. Advance borehole and collect soil samples continuously to the total depth of the soil boring (est 10-15 feet).

SB-2 – collect at 1-2 ,2-3, 3-4, 4-5 6-7, 8-9, 9-10, 10-11, 11-12, 12-13, 13-14, 14-15 – Chlorides only

- SB-5 collect at 3-4, 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 Chlorides only
- SB-6 collect at 3-4, 4-5; 6-7, 8-9, 9-10 Chlorides only 10
- SB-7 collect at 3-4, 4-5, 6-7, 8-9, 9-10 Chlorides only 10
- SB-8 collect at 2-3, 3-4, 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 Chlorides only
- SB-9 collect at 3-4, 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 Chlorides only
- SB-11 collect at 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 Chlorides only
- ✓ SB-12 collect at 1-2, 2-3, 3-4, 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 Chlorides only
- SB-18 collect at 4-5, 5-6, 6-7, 9-10 Chlorides only 10

Stepout South of SB-5 – collect at 0-1, 1-2, 2-3, 3-4, 4-5, 6-7, 8-9, 10-11, 12-13, 14-15 – Chlorides only Stepout East of SB-12 – collect at 0-1, 1-2, 2-3, 3-4, 4-5, 6-7, 8-9, 9-10 – Chlorides only

# 5B-231

- Analysis of soil samples will be conducted vertically until constituent concentrations are below action levels – remaining soil samples will be placed on hold
- Analysis for Chlorides (300.0)
- Maintain soil samples in cooler with ice and chain of custody document
- Take photos of soil boring locations
- Document lat/long at each boring location
- Complete a soil boring log for each location that includes lithology, observations, PID readings, sample depths

#### Field Map

- Prepare a detailed field figure showing location of utilities, above ground piping/features
- Include soil boring locations
- Include any surface water features, wells, springs, creeks, oil and gas wells

#### Assessment/Cleanup Levels

Refer to Table I in Chapter 19.15.29 and guidance from OCD

0-51 feet Chlorides – 600 mg/kg TPH – 100 mg/kg

# SOIL ASSESSMENT 4/27-4/28/2022

# Soil Assessment Scope of Work Detail Culebra Bluff CTB3 Produced Water Release

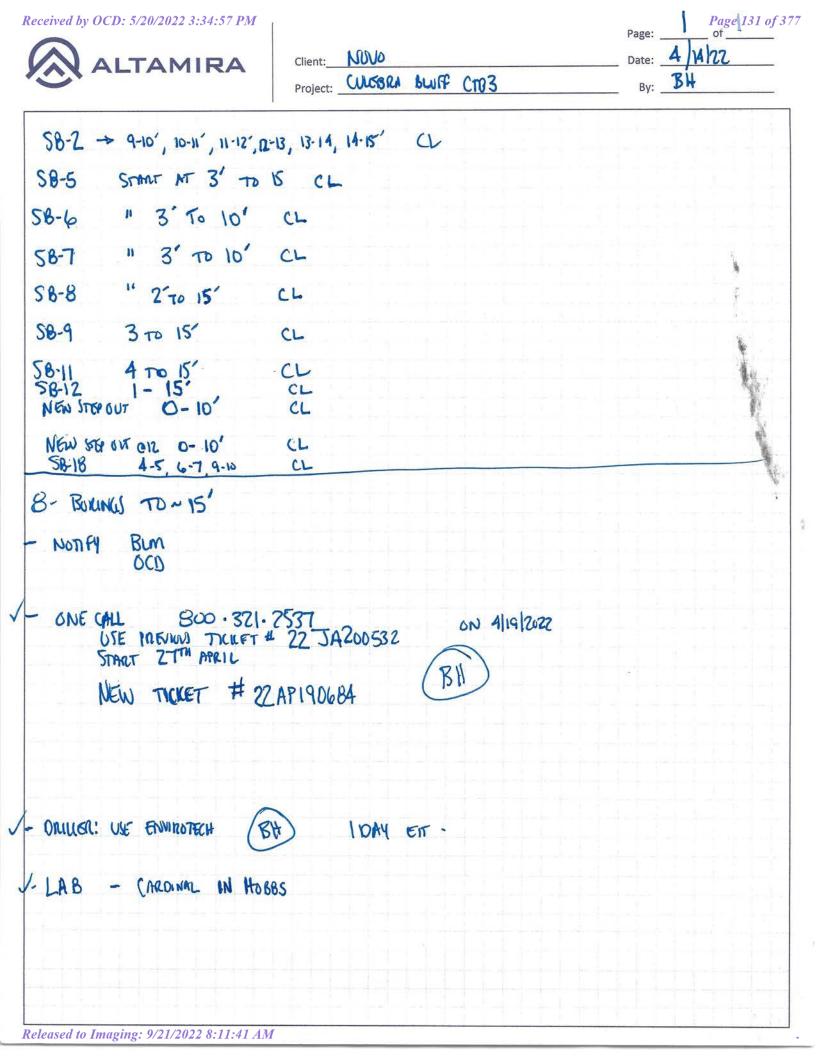
BTEX – 50 mg/kg Benzene – 10 mg/kg

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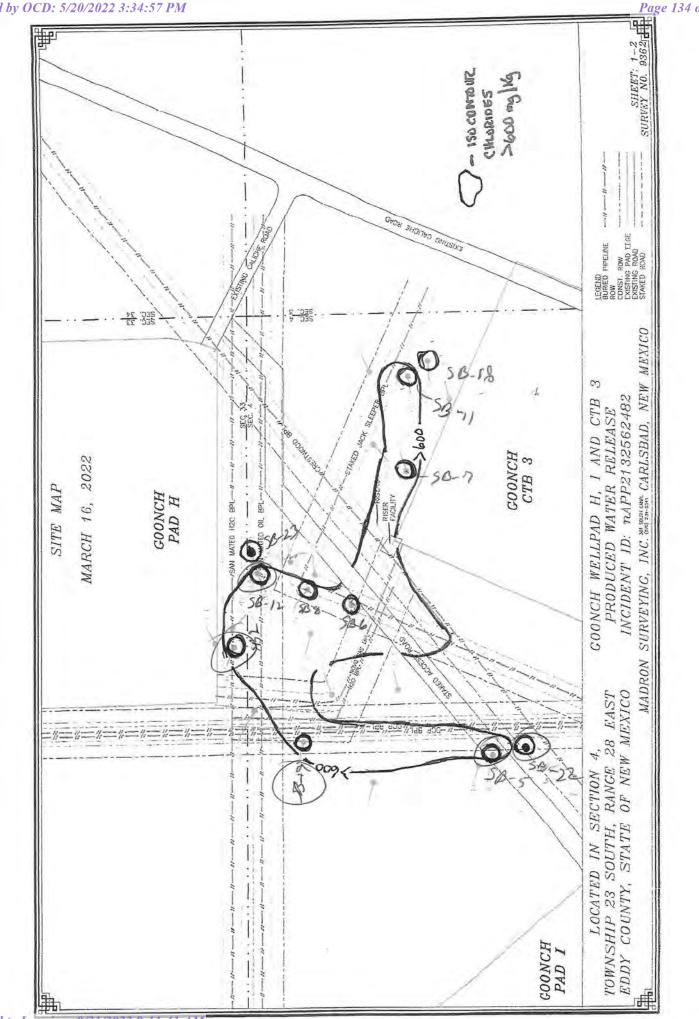
### Equipment

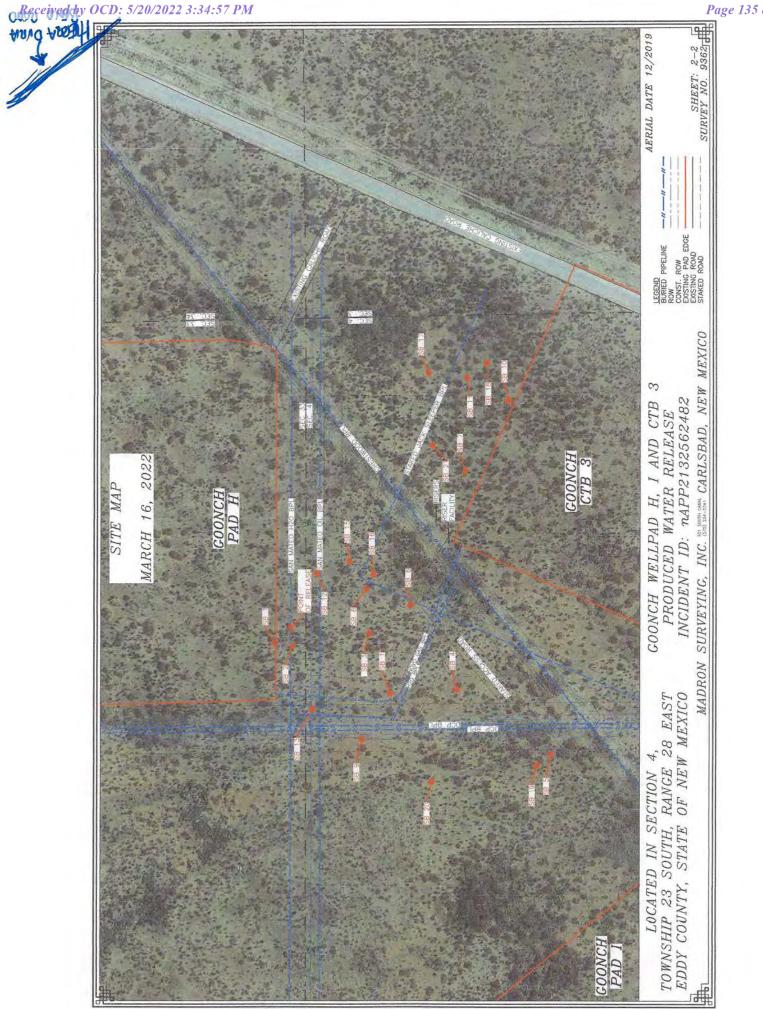
- Sample coolers/COCs/fedex
- Table
- Canopy
- PID
- Boring Logs
- Wooden stakes to mark locations
- Sharpe
- PPE
- Gloves
- Zip lock bags
- Hammer



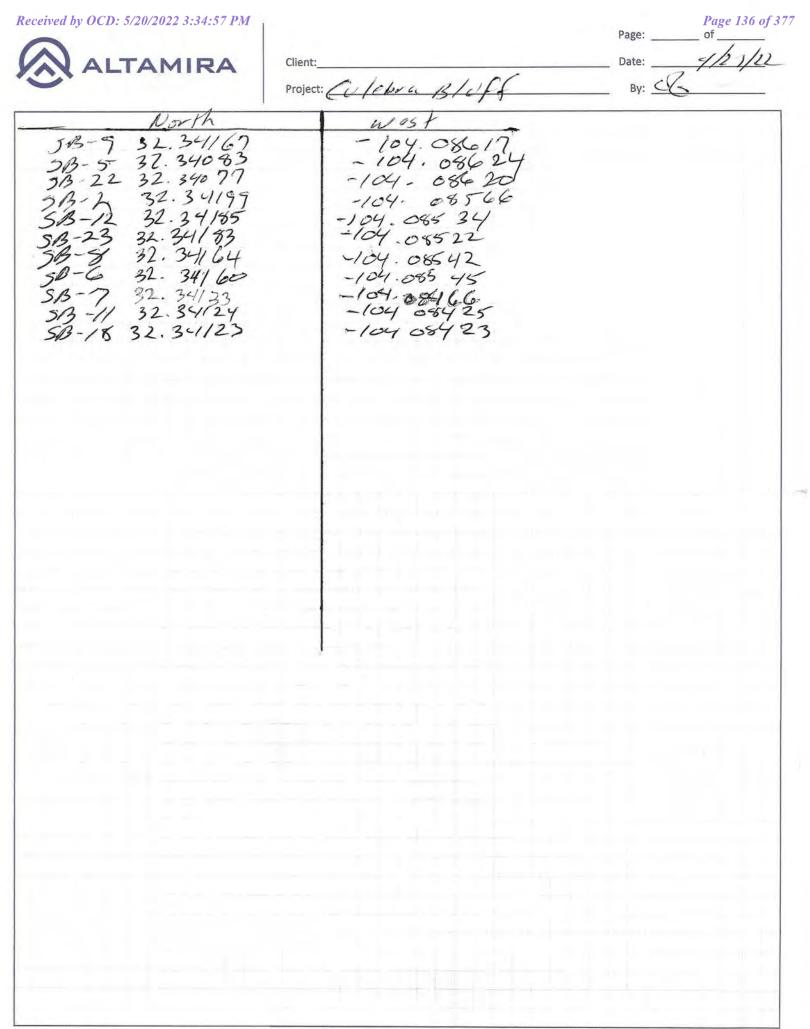
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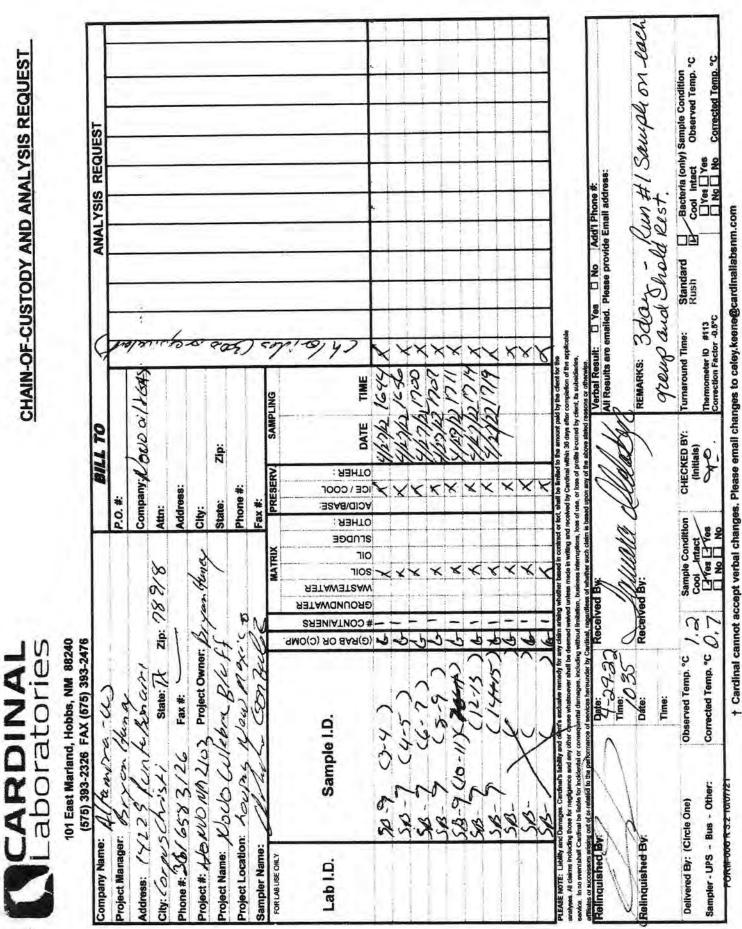




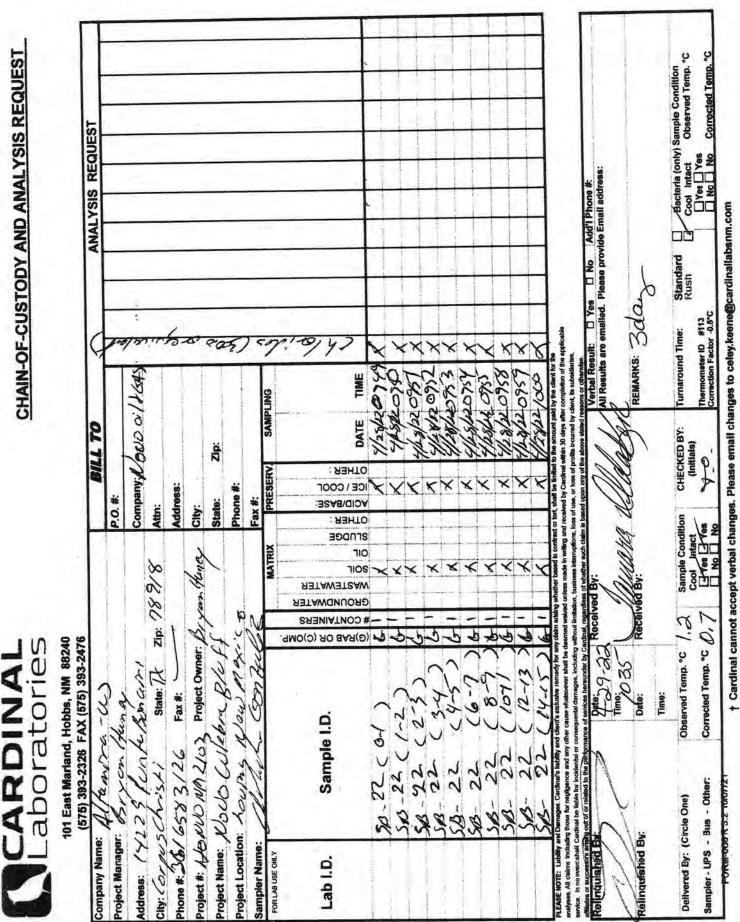
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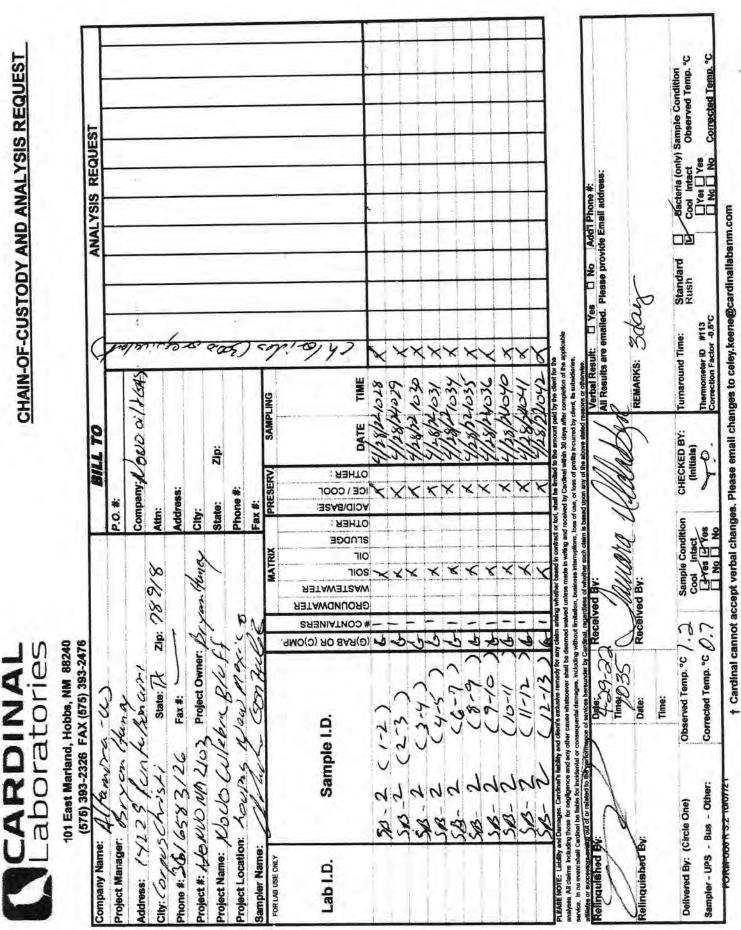


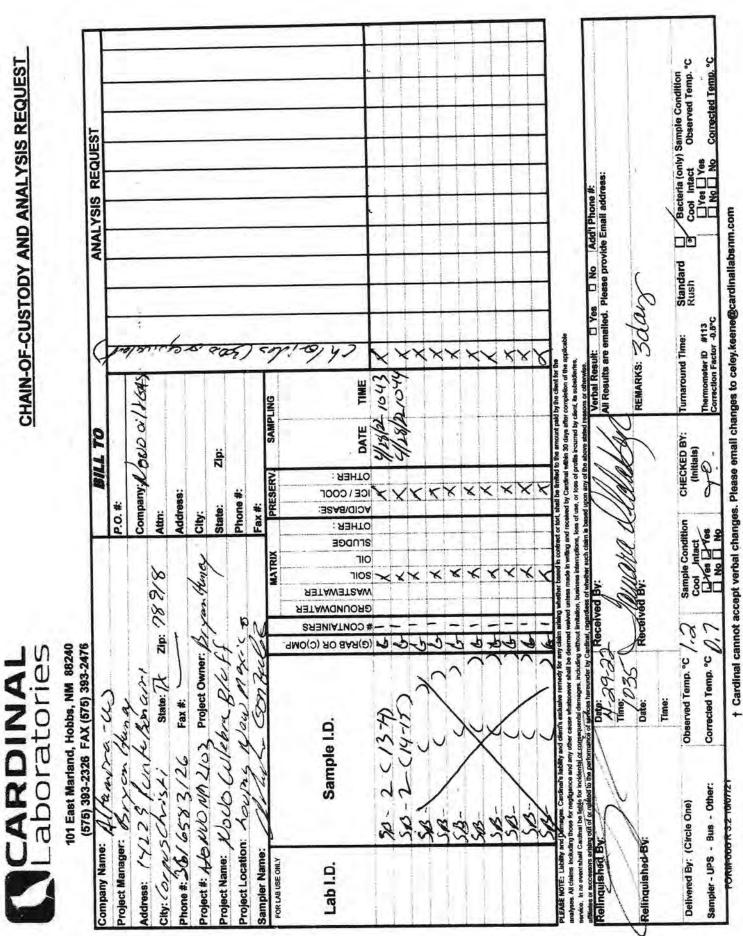
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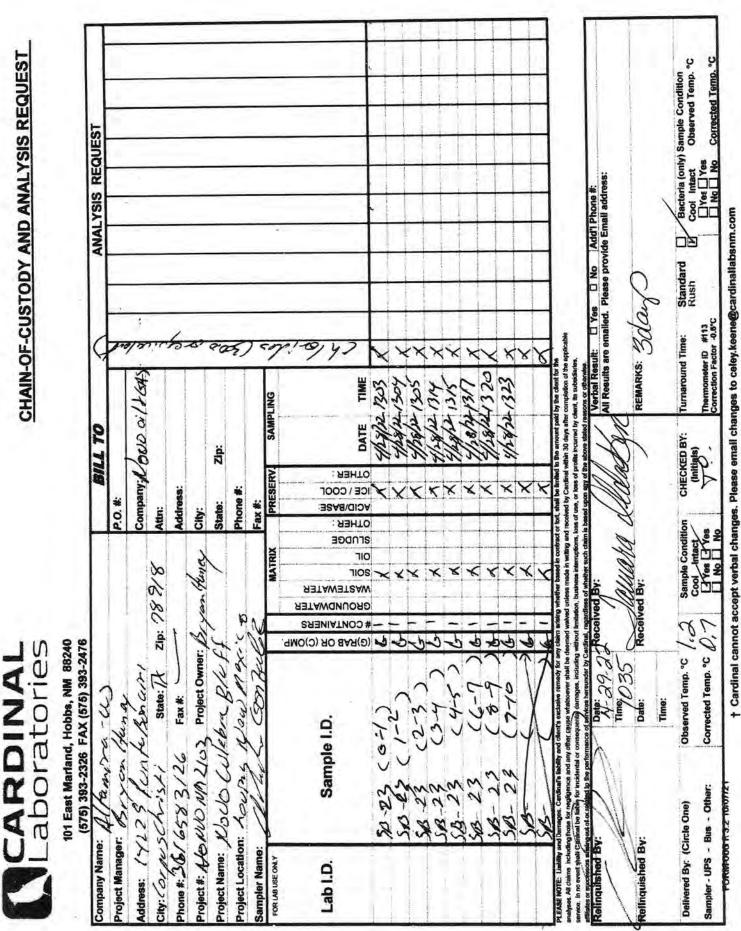


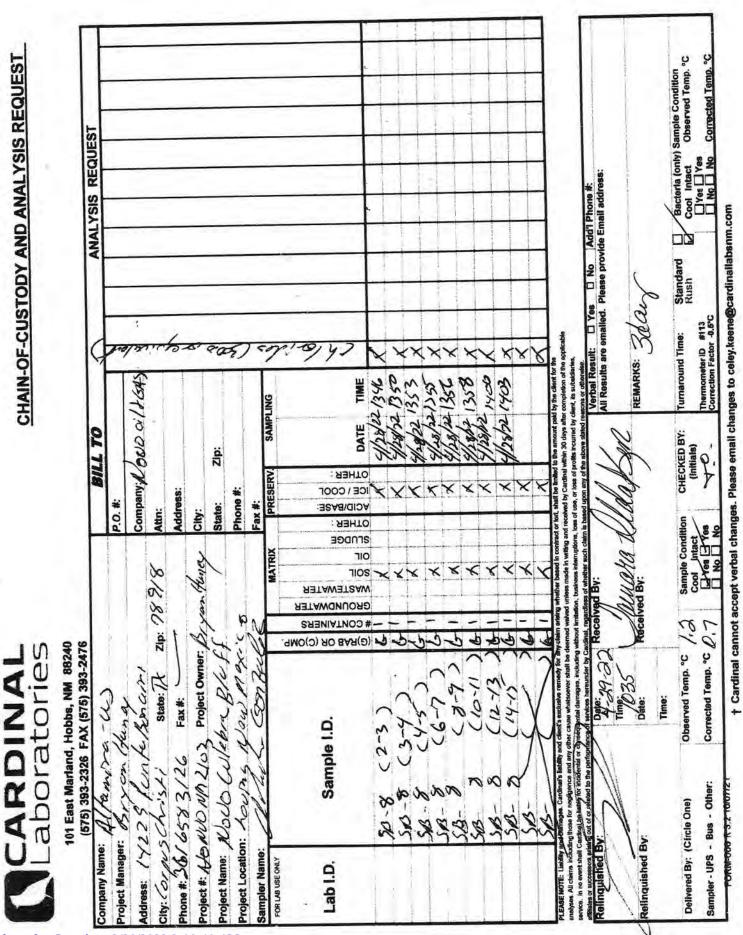


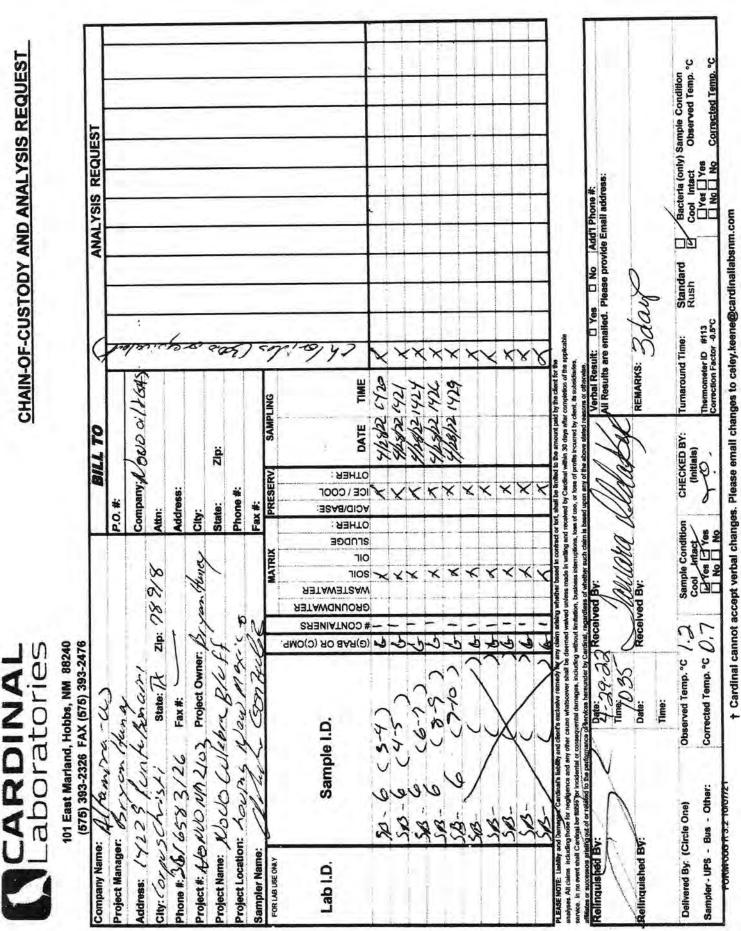


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Observed Temp. °C /, Sample Condition CHECKED BY: Turnaround Time: Standard D Bacteria (only) S Cool Intact (Initials) Rush D Cool Intact	elinquished B	\	Date: Time:	Rece	pevie	BV:	S		6	REMARK	B	Sno			
1 Laves we have the momentaria #13	Delivered By: ((	Circle One) Bus - Other:	Observed Temp. °C Corrected Temp. °C	10		Sool Ant	act	CHE	(Initials)	Turnarou	nd Time: er ID #113	1.	2	00	ample Condition Observed Temp. °C

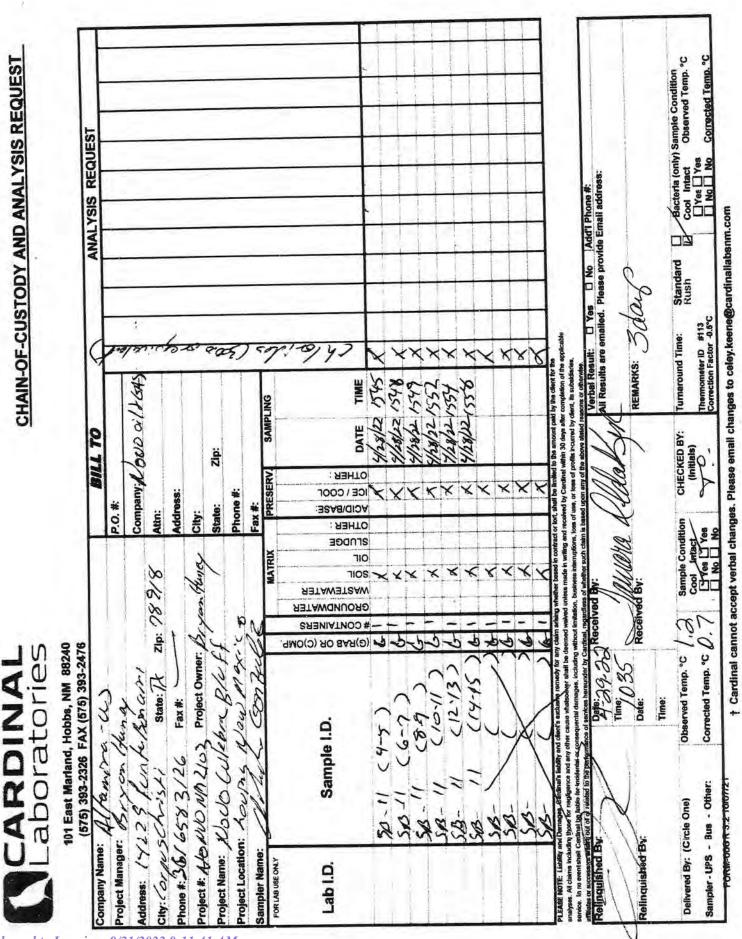
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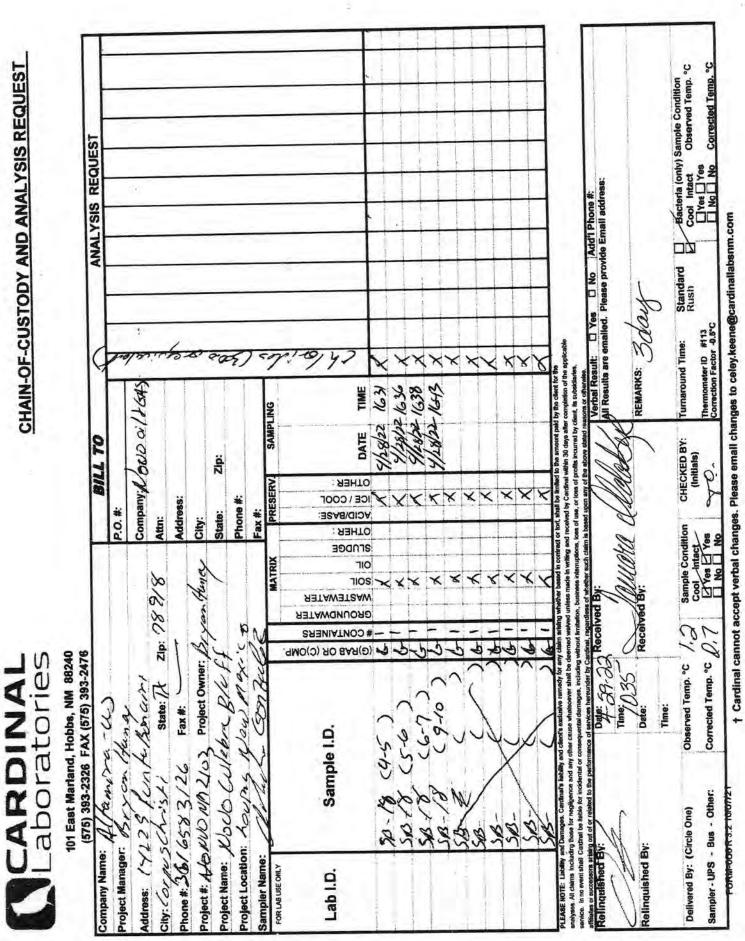




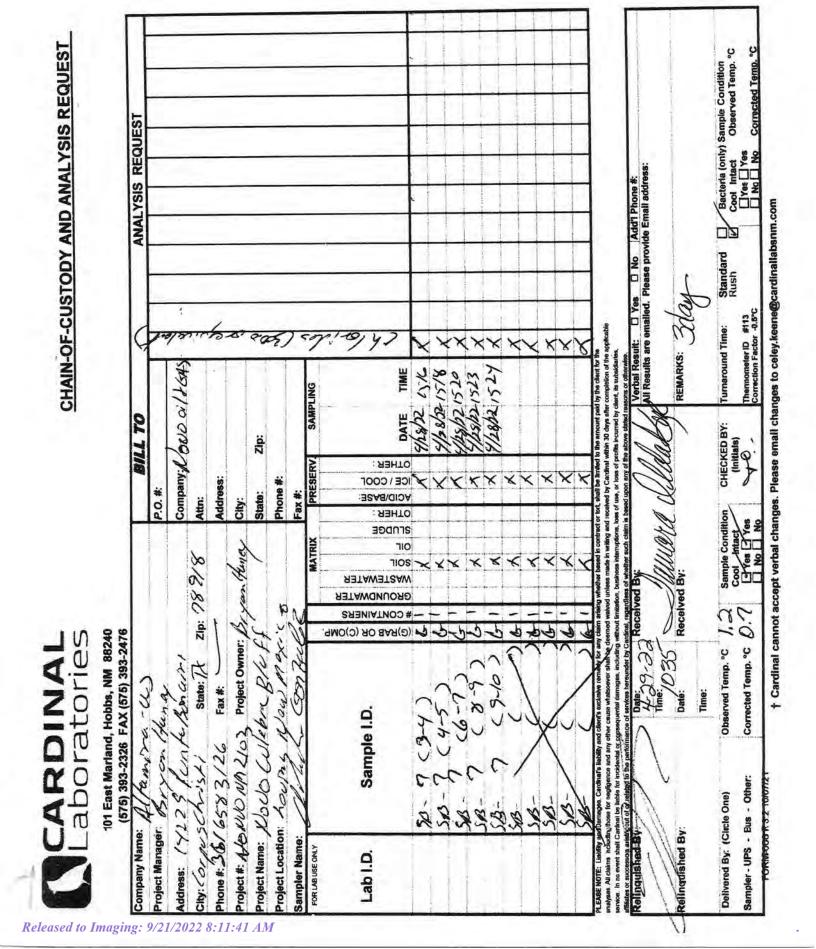
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APPENDIX F Plugging Report



# PLUGGING RECORD



# NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

II. WELL PLUGGING INFORMATION:         1)       Name of well drilling company that plugged well: White Drilling Company, Inc.         2)       New Mexico Well Driller License No.: WD-1456       Expiration Date: 09/30         3)       Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):		hern Delaware, L	Novo Oil & Gas North	
City:       OK       Zip code:       731 <b>II. WELL PLUGGING INFORMATION:</b> White Drilling Company, Inc.          1)       Name of well drilling company that plugged well:       White Drilling Company, Inc.           2)       New Mexico Well Driller License No.:       WD-1456       Expiration Date:       .09/30         3)       Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):				Well own
City:       OK       Zip code:       731 <b>II. WELL PLUGGING INFORMATION:</b> White Drilling Company, Inc.          1)       Name of well drilling company that plugged well:       White Drilling Company, Inc.           2)       New Mexico Well Driller License No.:       WD-1456       Expiration Date:       .09/30         3)       Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):		Blvd. Suite 206	dress: 1001 W. Wilshire	Mailing a
II. WELL PLUGGING INFORMATION:         1)       Name of well drilling company that plugged well: White Drilling Company, Inc.         2)       New Mexico Well Driller License No.: WD-1456       Expiration Date: 09/30         3)       Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):	ate:			
1)       Name of well drilling company that plugged well:       White Drilling Company, Inc.         2)       New Mexico Well Driller License No.:       WD-1456       Expiration Date:       09/30         3)       Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):				
<ul> <li>New Mexico Well Driller License No.: <u>WD-1456</u> Expiration Date: <u>09/30</u></li> <li>Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>John White</u></li> <li>Date well plugging began: <u>01/25/2022</u> Date well plugging concluded: <u>01/25/2022</u></li> <li>GPS Well Location: Latitude: <u>32</u> deg, <u>20</u> min, <u>31.47</u> sec Longitude: <u>104</u> deg, <u>05</u> min, <u>8.404</u> sec, WGS 84</li> <li>Depth of well confirmed at initiation of plugging as: <u>46.5</u> ft below ground level (bgl), by the following manner: <u>Steel Tape</u></li> <li>Static water level measured at initiation of plugging: <u>46.5</u> ft bgl</li> <li>Date well plugging plan of operations was approved by the State Engineer: <u>01/25/2022</u></li> </ul>				
<ul> <li>New Mexico Well Driller License No.: <u>WD-1456</u> Expiration Date: <u>09/30</u></li> <li>Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>John White</u></li> <li>Date well plugging began: <u>01/25/2022</u> Date well plugging concluded: <u>01/25/2022</u></li> <li>GPS Well Location: Latitude: <u>32</u> deg, <u>20</u> min, <u>31.47</u> sec Longitude: <u>104</u> deg, <u>05</u> min, <u>8.404</u> sec, WGS 84</li> <li>Depth of well confirmed at initiation of plugging as: <u>46.5</u> ft below ground level (bgl), by the following manner: <u>Steel Tape</u></li> <li>Static water level measured at initiation of plugging: <u>46.5</u> ft bgl</li> <li>Date well plugging plan of operations was approved by the State Engineer: <u>01/25/2022</u></li> </ul>	I: White Drillin	pany that plugge	ame of well drilling com	1)
<ul> <li>John White</li> <li>Date well plugging began: 01/25/2022 Date well plugging concluded: 01/25/2022</li> <li>GPS Well Location: Latitude: 32 deg, 20 min, 31.47 sec Longitude: 104 deg, 05 min, 8.404 sec, WGS 84</li> <li>Depth of well confirmed at initiation of plugging as: 46.5 ft below ground level (bgl), by the following manner: Steel Tape</li> <li>Static water level measured at initiation of plugging: 46.5 ft bgl</li> <li>Date well plugging plan of operations was approved by the State Engineer: 01/25/2022</li> </ul>				
<ul> <li>GPS Well Location: Latitude: <u>32</u> deg, <u>20</u> min, <u>31.47</u> sec Longitude: <u>104</u> deg, <u>05</u> min, <u>8.404</u> sec, WGS 84</li> <li>Depth of well confirmed at initiation of plugging as: <u>46.5</u> ft below ground level (bgl), by the following manner: <u>Steel Tape</u></li> <li>Static water level measured at initiation of plugging: <u>46.5</u> ft bgl</li> <li>Date well plugging plan of operations was approved by the State Engineer: <u>01/25/2022</u></li> </ul>	ollowing well	vere supervised b		,
<ul> <li>6) Depth of well confirmed at initiation of plugging as: <u>46.5</u> ft below ground level (bgl), by the following manner: <u>Steel Tape</u></li> <li>7) Static water level measured at initiation of plugging: <u>46.5</u> ft bgl</li> <li>8) Date well plugging plan of operations was approved by the State Engineer: <u>01/25/2022</u></li> </ul>	Date v	: 01/25/2022	ate well plugging began:	4) ]
<ul> <li>by the following manner: <u>Steel Tape</u></li> <li>Static water level measured at initiation of plugging: <u>46.5</u> ft bgl</li> <li>Date well plugging plan of operations was approved by the State Engineer: <u>01/25/2022</u></li> </ul>	deg, deg,	Latitude: Longitude:	PS Well Location:	5)
8) Date well plugging plan of operations was approved by the State Engineer: $01/25/2022$	; as: <u>46.5</u>	it initiation of plu Steel Tape	epth of well confirmed a the following manner:	6)
	ing: <u>46.5</u>	ed at initiation of	atic water level measure	7)
a) The second strain share a second strain share of the second strain strai	ved by the Sta	f operations was	ate well plugging plan or	8)
9) Were all plugging activities consistent with an approved plugging plan? is if not, please differences between the approved plugging plan and the well as it was plugged (attach additional pages as	proved pluggi and the well a	es consistent with pproved plugging	ere all plugging activitie fferences between the ap	9)
s it was plugged (attach additional pages as		/D-1456 y the following well Date v 32 deg, 104 deg, ugging as:46.5 plugging:46.5 approved by the Sta h an approved plugg	pany that plugged well: White Drillin License No.: WD-1456 ere supervised by the following well 01/25/2022 Date Latitude: 32 deg, Longitude: 104 deg,	Name of well drilling company that plugged well:       White Drilling         New Mexico Well Driller License No.:       WD-1456         Well plugging activities were supervised by the following well       John White         Date well plugging began:       01/25/2022       Date         GPS Well Location:       Latitude:       32       deg,         Longitude:       104       deg,

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
50	Type 1 Cement-Bentonite Slurry	6.82 Gal		Pump Mix w/trimie pipe	
-					
-					
-					
-					
_			- Marine Marine - Ma		
III. SIGNA	ATURE:	MULTIPLY B cubic feet x 7.48 cubic yards x 201.97	305 = gallons		
I, <u>John Whi</u> Engineer pe are true to th	te rtaining to the plugging of ne best of my knowledge a	wells and that each and	at I am familiar with all of the statements in	the rules of the this Plugging H	ne Office of the State Record and attachments
	(		-	·	02/08/2022

Signature of Well Driller

#### For each interval plugged, describe within the following columns:

Date

Version: September 8, 2009 Page 2 of 2



APPENDIX G Laboratory Analytical Data Reports

Pace Analytical® ANALYTICAL REPORT February 01, 2022

# Altamira - Angleton, TX

Sample Delivery Group:
Samples Received:
Project Number:
Description:
Site:
Report To:

L1455251 01/27/2022 NVONM2103 PHASE 001 Novo Culebra Bluff CULEBRA BLUFF Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515

Ср Тс Ss Cn Ϋ́r Śr Qc GI A Sc

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

# **Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Released to Imaging: 9/21/2022 8:11:41 AM Altamira - Angleton, TX

PROJECT: NVONM2103 PHASE 001

SDG: L1455251 DATE/TIME:

02/01/22 13:17

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Cn: Case Narrative	9
Tr: TRRP Summary	10
TRRP form R	11
TRRP form S	12
TRRP Exception Reports	13
Sr: Sample Results	14
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SB-1(2-3') L1455251-02	15
SB-2(0-1') L1455251-06	16
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SB-3(1-2') L1455251-15	19
SB-4(0-1') L1455251-18	20
SB-4(1-2') L1455251-19	21
SB-6(0-1') L1455251-20	22
SB-6(1-2') L1455251-21	23
SB-8(0-1') L1455251-22	24
SB-5(0-1') L1455251-23	25
SB-5(1-1.5') L1455251-24	26
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<sup>2</sup>Tc <sup>3</sup>Ss <sup>4</sup>Cn <sup>5</sup>Tr <sup>6</sup>Sr <sup>7</sup>Qc <sup>8</sup>Gl <sup>9</sup>Al <sup>10</sup>Sc

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Ср
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
⁵Tr
<sup>6</sup> Sr
<sup>7</sup> Qc
<sup>°</sup> GI
<sup>9</sup> Al
<sup>10</sup> Sc

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# SAMPLE SUMMARY

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Ср

Тс

Ss

Cn

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Sr

Qc

GI

ΆI

Sc

SB-1(0-1') L1455251-01 Solid			Collected by BH/OG	Collected date/time 01/25/22 09:57	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809537	1	01/28/22 07:04	01/28/22 07:11	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1	01/27/22 17:50	01/27/22 21:11	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	26	01/25/22 09:57	01/27/22 22:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1.04	01/25/22 09:57	01/28/22 00:38	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 13:57	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-1(2-3') L1455251-02 Solid			BH/OG	01/25/22 10:04	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809537	1	01/28/22 07:04	01/28/22 07:11	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1	01/27/22 17:50	01/27/22 21:20	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	27	01/25/22 10:04	01/27/22 23:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1.08	01/25/22 10:04	01/28/22 00:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 18:56	TJD	Mt. Juliet, TN
			Collected by BH/OG	Collected date/time 01/25/22 11:11	Received da 01/27/22 09:	
SB-2(0-1') L1455251-06 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809537	1	01/28/22 07:04	01/28/22 07:11	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	20	01/27/22 17:50	01/27/22 21:58	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 11:11	01/27/22 23:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 11:11	01/28/22 01:16	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 15:15	TJD	Mt. Juliet, TN
SB-2(2-3') L1455251-07 Solid			Collected by BH/OG	Collected date/time 01/25/22 11:19	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809537	1	01/28/22 07:04	01/28/22 07:11	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/27/22 22:07	LBR	Mt. Juliet, TM
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25.8	01/25/22 11:19	01/27/22 23:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809449 WG1809440	1.03	01/25/22 11:19	01/28/22 01:36	ACO	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1803440 WG1810265	1	01/31/22 08:13	01/31/22 13:44	TJD	Mt. Juliet, TN
SB-3(0-1') L1455251-14 Solid			Collected by BH/OG	Collected date/time 01/25/22 13:30	Received da 01/27/22 09:	
	Datch	D:I	Bronovation	Applysia	Analist	Looster
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10.2	01/27/22 17:50	01/27/22 22:17	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 13:30	01/28/22 00:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 13:30	01/28/22 01:54	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 14:10	TJD	Mt. Juliet, TN

PROJECT: NVONM2103 PHASE 001 SDG: L1455251 DATE/TIME: 02/01/22 13:17

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# SAMPLE SUMMARY

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SB-3(1-2') L1455251-15 Solid			Collected by BH/OG	Collected date/time 01/25/22 13:33	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/27/22 22:45	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 13:33	01/28/22 00:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 13:33	01/28/22 02:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 17:12	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-4(0-1') L1455251-18 Solid			BH/OG	01/25/22 14:10	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809538	1	01/27/22 17:50	01/27/22 22:55	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809418 WG1809449	25	01/25/22 14:10	01/28/22 00:55	ACG	Mt. Juliet, TN
	WG1809449 WG1809440				ACG	
Volatile Organic Compounds (GC/MS) by Method 8260B		1	01/25/22 14:10	01/28/22 02:32		Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 14:23	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-4(1-2') L1455251-19 Solid			BH/OG	01/25/22 14:15	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1.02	01/27/22 17:50	01/27/22 23:04	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 14:15	01/28/22 01:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 14:15	01/28/22 02:51	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 14:36	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-6(0-1') L1455251-20 Solid			BH/OG	01/25/22 14:26	01/27/22 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	date/time 01/28/22 09:28	date/time 01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809538 WG1809416	10	01/28/22 09.28	01/27/22 23:14	LBR	Mt. Juliet, TN
	WG1809416 WG1809449		01/27/22 17:50	01/28/22 01:39	ACG	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449 WG1809440	25 1	01/25/22 14:26	01/28/22 01:39	ACG ADM	Mt. Juliet, TN Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1809440 WG1810265	1 1	01/25/22 14:26	01/28/22 03:10 01/31/22 14:49	adm TJD	Mt. Juliet, TN Mt. Juliet, TN
					_	
SB-6(1-2') L1455251-21 Solid			Collected by BH/OG	Collected date/time 01/25/22 14:32	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/27/22 23:23	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 14:32	01/28/22 02:00	ACG	Mt. Juliet, TN
	WG1809440	1	01/25/22 14:32	01/28/22 03:29	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	VV(¬I^()944()					

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Method	Batch	Dilution	Preparation date/time	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	date/time 01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	100	01/27/22 17:50	01/27/22 23:33	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 14:45	01/28/22 02:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 14:45	01/28/22 03:48	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 17:55	TJD	Mt. Juliet, TN
SB-5(0-1') L1455251-23 Solid			Collected by BH/OG	Collected date/time 01/25/22 14:57	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/27/22 23:43	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 14:57	01/28/22 02:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 14:57	01/28/22 04:07	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 18:49	TJD	Mt. Juliet, TN
SB-5(1-1.5') L1455251-24 Solid			Collected by BH/OG	Collected date/time 01/25/22 15:05	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10.4	01/27/22 17:50	01/28/22 00:08	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 15:05	01/28/22 03:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 15:05	01/28/22 04:26	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 18:35	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-9(0-1') L1455251-25 Solid			BH/OG	01/25/22 15:23	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809538	1	01/28/22 09:28	01/28/22 09:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/28/22 00:17	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	31.5	01/25/22 15:23	01/28/22 03:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1809440 WG1810264	1.26 1	01/25/22 15:23 01/31/22 08:11	01/28/22 04:45 01/31/22 14:19	ADM TJD	Mt. Juliet, TN Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-9(1-2') L1455251-26 Solid			BH/OG	01/25/22 15:26	01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/28/22 00:46	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 15:26	01/28/22 03:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 15:26	01/28/22 05:04	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 18:08	TJD	Mt. Juliet, TN

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SB-7(0-1') L1455251-28 Solid			BH/OG	01/25/22 15:58	01/27/22 09:	00
<b>N</b> ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1809416	10	01/27/22 17:50	01/28/22 00:55	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 15:58	01/28/22 04:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 15:58	01/28/22 05:23	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 14:32	TJD	Mt. Juliet, TN
SB-7(1-2') L1455251-29 Solid			Collected by BH/OG	Collected date/time 01/25/22 16:01	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	5	01/27/22 17:50	01/28/22 01:05	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25	01/25/22 16:01	01/28/22 04:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1	01/25/22 16:01	01/28/22 05:42	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 14:46	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-7(2-2.5') L1455251-30 Solid			BH/OG	01/25/22 16:03	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1.01	01/27/22 17:50	01/28/22 01:14	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	26.5	01/25/22 16:03	01/28/22 04:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1.06	01/25/22 16:03	01/28/22 06:01	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 14:59	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-10(0-1') L1455251-31 Solid			BH/OG	01/25/22 16:12	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1.02	01/27/22 17:50	01/28/22 01:24	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	29	01/25/22 16:12	01/28/22 05:18	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1.16	01/25/22 16:12	01/28/22 06:20	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 15:13	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-10(1-2') L1455251-32 Solid			BH/OG	01/25/22 16:15	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809539	1	01/28/22 10:09	01/28/22 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809416	1.04	01/27/22 17:50	01/28/22 01:33	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809449	25.3	01/25/22 16:15	01/28/22 05:40	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809440	1.01	01/25/22 16:15	01/28/22 06:39	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 15:26	TJD	Mt. Juliet, TN

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Collected by Received date/time Collected date/time BH/OG 01/25/22 16:31 01/27/22 09:00 SB-11(0-1') L1455251-35 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time Total Solids by Method 2540 G-2011 WG1809539 1 01/28/22 10:09 01/28/22 10:26 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1809423 10 01/27/22 22:30 01/28/22 02:40 LBR Mt. Juliet, TN DWR Volatile Organic Compounds (GC) by Method 8015D/GRO WG1809503 26.5 01/25/22 16:31 01/28/22 02:39 Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1809490 1.06 01/25/22 16:31 01/28/22 06:07 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015M WG1810264 1 01/31/22 08:11 01/31/22 16:07 TJD Mt. Juliet, TN Collected by Collected date/time Received date/time BH/OG 01/27/22 09:00 01/25/22 16:33 SB-11(1-2') L1455251-36 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time Total Solids by Method 2540 G-2011 WG1809539 1 01/28/22 10:09 01/28/22 10:26 KDW Mt. Juliet, TN WG1809423 Mt. Juliet, TN Wet Chemistry by Method 300.0 10 01/27/22 22:30 01/28/22 02:50 I BR 01/25/22 16:33 Volatile Organic Compounds (GC) by Method 8015D/GRO WG1809503 26.5 01/28/22 03:02 DWR Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1809491 1.06 01/25/22 16:33 01/28/22 04:29 ACG Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015M WG1810264 01/31/22 08:11 01/31/22 16:20 TJD Mt. Juliet, TN 1 Collected by Collected date/time Received date/time BH/OG 01/25/22 00:00 01/27/22 09:00 TRIP BLANK L1455251-39 GW Method Preparation Batch Dilution Analysis Analyst Location date/time date/time Volatile Organic Compounds (GC/MS) by Method 8260B WG1809290 1 01/27/22 15:43 01/27/22 15:43 ACG Mt. Juliet, TN

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# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

h

Mark W. Beasley Project Manager

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This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - Samples associated with the MS/MSD clearly identified.
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte
  - for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley Project Manager

Laboratory Name: Pace Analytical National		ry Name: Pace Analytical National LRC	LRC Date: 02/01/2022 13:17						
Proj	Project Name: Novo Culebra Bluff		Laboratory Job Number: L1455251-01, 02, 06, 07, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 35, 36 and 39						
Rev	iewe	r Name: Mark W. Beasley WG18	Prep Batch Number(s): WG1809490, WG1809449, WG1809416, WG1809423, WG1809440, WG1809537, WG1809538, WG1809539, WG1809491, WG1809290, WG1809503, WG1810264 and WG1810265						
# <sup>1</sup>	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR⁴	ER# <sup>5</sup>	
R1	OI	Chain-of-custody (C-O-C)							
		Did samples meet the laboratory's standard conditions of sam	nple acceptability upon receipt?	Х					
		Were all departures from standard conditions described in an	exception report?			Х			
R2	OI	Sample and quality control (QC) identification							
		Are all field sample ID numbers cross-referenced to the labora		Х					
		Are all laboratory ID numbers cross-referenced to the correspo	oonding QC data?	Х					
R3	OI	Test reports					·		
		Were all samples prepared and analyzed within holding times?		Х					
		Other than those results < MQL, were all other raw values brac	cketed by calibration standards?	Х					
		Were calculations checked by a peer or supervisor?		Х					
		Were all analyte identifications checked by a peer or supervise		X		ļ			
		Were sample detection limits reported for all analytes not dete		<u>X</u>		<b> </b>			
		Were all results for soil and sediment samples reported on a d	· · ·	X					
		Were % moisture (or solids) reported for all soil and sediment s		X			ļ		
		Were bulk soils/solids samples for volatile analysis extracted w	with methanol per SW846 Method 5035?	Х					
		If required for the project, are TICs reported?				Х			
R4	0	Surrogate recovery data			-	1	1	[	
		Were surrogates added prior to extraction?		<u>X</u>					
		Were surrogate percent recoveries in all samples within the la	aboratory QC limits?	Х					
R5	OI	Test reports/summary forms for blank samples				1	r –	-	
		Were appropriate type(s) of blanks analyzed?		<u>X</u>					
		Were blanks analyzed at the appropriate frequency?		Х					
		Were method blanks taken through the entire analytical proce cleanup procedures?	ess, including preparation and, if applicable,	Х					
		Were blank concentrations < MQL?		Х					
R6	OI	Laboratory control samples (LCS):							
		Were all COCs included in the LCS?		Х					
		Was each LCS taken through the entire analytical procedure, i	including prep and cleanup steps?	Х					
		Were LCSs analyzed at the required frequency?		Х					
		Were LCS (and LCSD, if applicable) %Rs within the laboratory (	QC limits?	Х					
		Does the detectability check sample data document the labora used to calculate the SDLs?	ratory's capability to detect the COCs at the MDL	Х					
		Was the LCSD RPD within QC limits?		Х					
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data							
		Were the project/method specified analytes included in the MS	IS and MSD?	Х					
		Were MS/MSD analyzed at the appropriate frequency?		Х					
		Were MS (and MSD, if applicable) %Rs within the laboratory Q0	C limits?		Х			1	
		Were MS/MSD RPDs within laboratory QC limits?		Х					
R8	OI	Analytical duplicate data							
		Were appropriate analytical duplicates analyzed for each matr		Х	L	L			
		Were analytical duplicates analyzed at the appropriate frequer	ency?	Х					
		Were RPDs or relative standard deviations within the laborator	bry QC limits?	Х					
R9	OI	Method quantitation limits (MQLs):				r	·		
		Are the MQLs for each method analyte included in the laborate		Х					
		Do the MQLs correspond to the concentration of the lowest no		Х					
	-	Are unadjusted MQLs and DCSs included in the laboratory dat	ita package?	Х					
R10	OI	Other problems/anomalies			-	1	1		
		Are all known problems/anomalies/special conditions noted in Was applicable and available technology used to lower the SD the sample results?		X X					
		Is the laboratory NELAC-accredited under the Texas Laborator and methods associated with this laboratory data package?	bry Accreditation Program for the analytes, matrices	х					
shoul 2. O 3. N/ 4. NF	ld be r = orga A = No R = No	and methods associated with this laboratory data package: notified by the letter "R" must be included in the laboratory data etained and made available upon request for the appropriate re inic analyses; I = inorganic analyses (and general chemistry, whi t applicable; t reviewed; cception Report identification number (an Exception Report should a sociate the sociated with this laboratory data package: the sociated with this laboratory data the sociated with this laboratory data the sociated with the	etention period. nen applicable);		I dentifie	d by th	e letter	"S"	

SDG: L1455251 Revised May 2010 23:34:57 PM Laboratory Review Checklist: Supporting Data

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/01/2022 13:17						
Proj	ject N	lame: Novo Culebra Bluff	Laboratory Job Number: L1455251-01, 02, 06, 07, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 35, 36 and 39						
Rev	viewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1809490, WG1809449, WG1809440, WG1809537, WG1809538, WG18095 WG1809503, WG1810264 and WG1810265						
# <sup>1</sup>	A <sup>2</sup>	Description	•	Yes	No	NA <sup>3</sup>	NR⁴	ER#	
51	01	Initial calibration (ICAL)			•				
		Were response factors and/or relative response factor	s for each analyte within QC limits?	Х		1	Ι		
		Were percent RSDs or correlation coefficient criteria m	net?	X					
		Was the number of standards recommended in the me	ethod used for all analytes?	X					
		Were all points generated between the lowest and highest standard used to calculate the curve?							
		Are ICAL data available for all instruments used?		X					
		Has the initial calibration curve been verified using an	appropriate second source standard?	X					
52	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):				•	•		
		Was the CCV analyzed at the method-required frequent		Х					
		Were percent differences for each analyte within the n	X						
		Was the ICAL curve verified for each analyte?	X						
		Was the absolute value of the analyte concentration in	the inorganic CCB < MDL?	X			1		
53	0	Mass spectral tuning			•				
		Was the appropriate compound for the method used f	or tuning?	Х			1		
		Were ion abundance data within the method-required		X					
54	0	Internal standards (IS)					•	•	
		Were IS area counts and retention times within the me	thod-required QC limits?	X					
55	OI	Raw data (NELAC Section 5.5.10)					1		
-		Were the raw data (for example, chromatograms, spec	tral data) reviewed by an analyst?	X	T	Г	1		
		Were data associated with manual integrations flagged	· · · · · · · · · · · · · · · · · · ·	X			1		
56	0	Dual column confirmation					1		
		Did dual column confirmation results meet the method	I-required QC?			Х			
57	0	Tentatively identified compounds (TICs)	· · ·						
		If TICs were requested, were the mass spectra and TIC	C data subject to appropriate checks?			X			
58	1	Interference Check Sample (ICS) results							
		Were percent recoveries within method QC limits?				Х	1		
59	1	Serial dilutions, post digestion spikes, and method of s	standard additions			•			
		Were percent differences, recoveries, and the linearity	within the QC limits specified in the method?			X			
510	OI	Method detection limit (MDL) studies			•				
		Was a MDL study performed for each reported analyte	?	Х					
		Is the MDL either adjusted or supported by the analysi	s of DCSs?	X	1				
511	OI	Proficiency test reports							
		Was the laboratory's performance acceptable on the a	pplicable proficiency tests or evaluation studies?	Х					
512	OI	Standards documentation							
		Are all standards used in the analyses NIST-traceable	or obtained from other appropriate sources?	Х					
513	OI	Compound/analyte identification procedures							
		Are the procedures for compound/analyte identificatio	n documented?	Х					
514	OI	Demonstration of analyst competency (DOC)							
		Was DOC conducted consistent with NELAC Chapter 5	5?	Х					
		Is documentation of the analyst's competency up-to-da	ate and on file?	Х					
515	OI	Verification/validation documentation for methods (NE	LAC Chapter 5)						
		Are all the methods used to generate the data docume	ented, verified, and validated, where applicable?	Х					
516	OI	Laboratory standard operating procedures (SOPs)							
		Are laboratory SOPs current and on file for each method	od performed	Х					
shoul 2. O 3. N/ 4. NF	ld be r = orga A = No R = No	ntified by the letter "R" must be included in the laborato etained and made available upon request for the approp nic analyses; I = inorganic analyses (and general chemi t applicable; reviewed; conting Bogort identification number (an Exception Bog	priate retention period. stry, when applicable);		dentifie	ed by th	e letter	"S"	

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: NVONM2103 PHASE 001

SDG: L1455251

Laborato	ory Name: Pace Analytical National	LRC Date: 02/01/2022 13:17			
Project I	Name: Novo Culebra Bluff	Laboratory Job Number: L1455251-01, 02, 06, 07, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 35, 36 and 39			
Reviewe	er Name: Mark W. Beasley	Prep Batch Number(s): WG1809490, WG1809449, WG1809416, WG1809423, WG1809440, WG1809537, WG1809538, WG1809539, WG1809491, WG1809290, WG1809503, WG1810264 and WG1810265			
ER # <sup>1</sup>	Description				
1	300.0 WG1809423 Chloride: Percent Recovery is outside of established control limits				

300.0 WG1809423 Chloride: Percent Recovery is outside of established control limits.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" Netris identified by the letter is indicated in the abbrachy data package submits should be retained and made available upon request for the appropriate retention period.
 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 NA = Not applicable;
 NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

# Repeired by OCD: 5/20/2022 3:34:57 PM Collected date/time: 01/25/22 09:57

# SAMPLE RESULTS - 01

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch			
Analyte	%			date / time				
Total Solids	95.8		1	01/28/2022 07:11	WG1809537			
Wet Chemistry by Me	thod 300.0							
	Result (dry)	Qualifier	SDL (d	y) Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	64.4		9.60	20.0	20.9	1	01/27/2022 21:11	WG1809416
Volatile Organic Com	pounds (GC)	by Method	1 80151	D/GRO				
9								
	Result (dry)	Qualifier	SDL (d	y) Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	<b>Result (dry)</b> mg/kg	Qualifier	<b>SDL (d</b> mg/kg	y) Unadj. MQL mg/kg	<b>MQL (dry)</b> mg/kg	Dilution	Analysis date / time	<u>Batch</u>
		<u>Qualifier</u>				Dilution 26		<u>Batch</u> WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000527	0.00100	0.00113	1.04	01/28/2022 00:38	WG1809440
Toluene	U		0.00147	0.00500	0.00564	1.04	01/28/2022 00:38	WG1809440
Ethylbenzene	U		0.000832	0.00250	0.00282	1.04	01/28/2022 00:38	WG1809440
Total Xylenes	U		0.000993	0.00650	0.00733	1.04	01/28/2022 00:38	WG1809440
(S) Toluene-d8	95.3				75.0-131		01/28/2022 00:38	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 00:38	WG1809440
(S) 1,2-Dichloroethane-d4	116				70.0-130		01/28/2022 00:38	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.17	1	01/31/2022 13:57	WG1810265
C28-C36 Motor Oil Range	4.37		0.286	4.00	4.17	1	01/31/2022 13:57	WG1810265
(S) o-Terphenyl	71.0				18.0-148		01/31/2022 13:57	WG1810265

SDG: L1455251

#### SAMPLE RESULTS - 02 L1455251

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		94.8		1	01/28/2022 07:11	WG1809537	¯Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry by	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	162		9.71	20.0	21.1	1	01/27/2022 21:20	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.648	0.100	2.99	27	01/27/2022 23:05	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.6				77.0-120		01/27/2022 23:05	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000558	0.00100	0.00120	1.08	01/28/2022 00:57	WG1809440
Toluene	U		0.00155	0.00500	0.00598	1.08	01/28/2022 00:57	WG1809440
Ethylbenzene	U		0.000881	0.00250	0.00299	1.08	01/28/2022 00:57	WG1809440
Total Xylenes	U		0.00105	0.00650	0.00777	1.08	01/28/2022 00:57	WG1809440
(S) Toluene-d8	94.1				75.0-131		01/28/2022 00:57	WG1809440
(S) 4-Bromofluorobenzene	105				67.0-138		01/28/2022 00:57	WG1809440
(S) 1,2-Dichloroethane-d4	114				70.0-130		01/28/2022 00:57	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	15.3		1.70	4.00	4.22	1	01/31/2022 18:56	WG1810265
C28-C36 Motor Oil Range	47.3		0.289	4.00	4.22	1	01/31/2022 18:56	WG1810265
(S) o-Terphenyl	87.2				18.0-148		01/31/2022 18:56	WG1810265

SDG: L1455251

#### SAMPLE RESULTS - 06 L1455251

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# Total Solids by Method 2540 G-2011

	Re	sult <u>Qualifi</u>	er Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	92	.1	1	01/28/2022 07:11	WG1809537	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry b	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	8080		196	20.0	425	20	01/27/2022 21:58	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	L
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.616	0.100	2.84	25	01/27/2022 23:27	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	90.6				77.0-120		01/27/2022 23:27	WG1809449	7

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000530	0.00100	0.00113	1	01/28/2022 01:16	WG1809440
Toluene	U		0.00148	0.00500	0.00567	1	01/28/2022 01:16	WG1809440
Ethylbenzene	U		0.000836	0.00250	0.00284	1	01/28/2022 01:16	WG1809440
Total Xylenes	U		0.000998	0.00650	0.00738	1	01/28/2022 01:16	WG1809440
(S) Toluene-d8	97.7				75.0-131		01/28/2022 01:16	WG1809440
(S) 4-Bromofluorobenzene	105				67.0-138		01/28/2022 01:16	WG1809440
(S) 1,2-Dichloroethane-d4	115				70.0-130		01/28/2022 01:16	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	33.0		1.71	4.00	4.25	1	01/31/2022 15:15	WG1810265
C28-C36 Motor Oil Range	54.5		0.291	4.00	4.25	1	01/31/2022 15:15	WG1810265
(S) o-Terphenyl	63.7				18.0-148		01/31/2022 15:15	WG1810265

Collected date/time: 01/25/22 11:19

#### SAMPLE RESULTS - 07 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	— Ср
Analyte	%			date / time		2
Total Solids	92.6		1	01/28/2022 07:11	WG1809537	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry b	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	3570		99.3	20.0	216	10	01/27/2022 22:07	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.648	0.100	2.98	25.8	01/27/2022 23:49	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	91.3				77.0-120		01/27/2022 23:49	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000556	0.00100	0.00119	1.03	01/28/2022 01:36	WG1809440
Toluene	U		0.00155	0.00500	0.00596	1.03	01/28/2022 01:36	WG1809440
Ethylbenzene	U		0.000878	0.00250	0.00298	1.03	01/28/2022 01:36	WG1809440
Total Xylenes	U		0.00105	0.00650	0.00775	1.03	01/28/2022 01:36	WG1809440
(S) Toluene-d8	95.3				75.0-131		01/28/2022 01:36	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 01:36	WG1809440
(S) 1,2-Dichloroethane-d4	110				70.0-130		01/28/2022 01:36	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.36		1.74	4.00	4.32	1	01/31/2022 13:44	WG1810265
C28-C36 Motor Oil Range	11.2		0.296	4.00	4.32	1	01/31/2022 13:44	WG1810265
(S) o-Terphenyl	67.5				18.0-148		01/31/2022 13:44	WG1810265

SDG: L1455251

#### SAMPLE RESULTS - 14 L1455251

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# Total Solids by Method 2540 G-2011

	Re	esult Quali	fier Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89	.8	1	01/28/2022 09:57	WG1809538	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0										
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cp	
Chloride	3510		105	20.0	227	10.2	01/27/2022 22:17	WG1809416		

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.674	0.100	3.11	25	01/28/2022 00:11	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	89.8				77.0-120		01/28/2022 00:11	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000581	0.00100	0.00124	1	01/28/2022 01:54	WG1809440
Toluene	U		0.00162	0.00500	0.00622	1	01/28/2022 01:54	WG1809440
Ethylbenzene	U		0.000916	0.00250	0.00311	1	01/28/2022 01:54	WG1809440
Total Xylenes	U		0.00109	0.00650	0.00808	1	01/28/2022 01:54	WG1809440
(S) Toluene-d8	94.3				75.0-131		01/28/2022 01:54	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 01:54	WG1809440
(S) 1,2-Dichloroethane-d4	113				70.0-130		01/28/2022 01:54	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	62.9		1.79	4.00	4.46	1	01/31/2022 14:10	WG1810265
C28-C36 Motor Oil Range	57.5		0.305	4.00	4.46	1	01/31/2022 14:10	WG1810265
(S) o-Terphenyl	61.1				18.0-148		01/31/2022 14:10	WG1810265

#### SAMPLE RESULTS - 15 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.1		1	01/28/2022 09:57	WG1809538	¯Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry b	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	1860		102	20.0	222	10	01/27/2022 22:45	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.663	0.100	3.06	25	01/28/2022 00:33	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	91.7				77.0-120		01/28/2022 00:33	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000571	0.00100	0.00122	1	01/28/2022 02:13	WG1809440
Toluene	U		0.00159	0.00500	0.00611	1	01/28/2022 02:13	WG1809440
Ethylbenzene	U		0.000901	0.00250	0.00306	1	01/28/2022 02:13	WG1809440
Total Xylenes	U		0.00108	0.00650	0.00795	1	01/28/2022 02:13	WG1809440
(S) Toluene-d8	95.8				75.0-131		01/28/2022 02:13	WG1809440
(S) 4-Bromofluorobenzene	106				67.0-138		01/28/2022 02:13	WG1809440
(S) 1,2-Dichloroethane-d4	116				70.0-130		01/28/2022 02:13	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	94.6		1.79	4.00	4.44	1	01/31/2022 17:12	WG1810265
C28-C36 Motor Oil Range	77.1		0.304	4.00	4.44	1	01/31/2022 17:12	WG1810265
(S) o-Terphenyl	60.2				18.0-148		01/31/2022 17:12	WG1810265

#### SAMPLE RESULTS - 18 L1455251

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# Total Solids by Method 2540 G-2011

	Res	ılt <u>Qualifier</u>	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.2		1	01/28/2022 09:57	WG1809538	Tc

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
nalyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
hloride	11.2	J	9.57	20.0	20.8	1	01/27/2022 22:55	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.587	0.100	2.71	25	01/28/2022 00:55	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	90.8				77.0-120		01/28/2022 00:55	WG1809449	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000506	0.00100	0.00108	1	01/28/2022 02:32	WG1809440
Toluene	U		0.00141	0.00500	0.00541	1	01/28/2022 02:32	WG1809440
Ethylbenzene	U		0.000798	0.00250	0.00271	1	01/28/2022 02:32	WG1809440
Total Xylenes	U		0.000953	0.00650	0.00704	1	01/28/2022 02:32	WG1809440
(S) Toluene-d8	95.4				75.0-131		01/28/2022 02:32	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 02:32	WG1809440
(S) 1,2-Dichloroethane-d4	111				70.0-130		01/28/2022 02:32	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.66	J	1.67	4.00	4.16	1	01/31/2022 14:23	WG1810265
C28-C36 Motor Oil Range	18.1		0.285	4.00	4.16	1	01/31/2022 14:23	WG1810265
(S) o-Terphenyl	77.2				18.0-148		01/31/2022 14:23	WG1810265

#### SAMPLE RESULTS - 19 L1455251

# Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch		- 1-
Analyte	%			date / time		2	_
Total Solids	95.3		1	01/28/2022 09:57	WG1809538	T	С

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	19.0	J	9.85	20.0	21.4	1.02	01/27/2022 23:04	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.598	0.100	2.75	25	01/28/2022 01:17	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	90.2				77.0-120		01/28/2022 01:17	WG1809449	7

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000514	0.00100	0.00110	1	01/28/2022 02:51	WG1809440
Toluene	U		0.00143	0.00500	0.00551	1	01/28/2022 02:51	WG1809440
Ethylbenzene	U		0.000812	0.00250	0.00275	1	01/28/2022 02:51	WG1809440
Total Xylenes	U		0.000969	0.00650	0.00716	1	01/28/2022 02:51	WG1809440
(S) Toluene-d8	94.9				75.0-131		01/28/2022 02:51	WG1809440
(S) 4-Bromofluorobenzene	102				67.0-138		01/28/2022 02:51	WG1809440
(S) 1,2-Dichloroethane-d4	112				70.0-130		01/28/2022 02:51	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.50	J	1.69	4.00	4.20	1	01/31/2022 14:36	WG1810265
C28-C36 Motor Oil Range	9.92		0.288	4.00	4.20	1	01/31/2022 14:36	WG1810265
(S) o-Terphenyl	64.5				18.0-148		01/31/2022 14:36	WG1810265

SDG: L1455251

DATE/TIME: 02/01/22 13:17

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#### SAMPLE RESULTS - 20 L1455251

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	 Ср	
Analyte		%			date / time	—	2	ר ר
Total Solids		91.0		1	01/28/2022 09:57	<u>WG1809538</u>	Tc	

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	1270		101	20.0	220	10	01/27/2022 23:14	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.651	0.100	3.00	25	01/28/2022 01:39	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	92.0				77.0-120		01/28/2022 01:39	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000560	0.00100	0.00120	1	01/28/2022 03:10	WG1809440
Toluene	U		0.00156	0.00500	0.00600	1	01/28/2022 03:10	WG1809440
Ethylbenzene	U		0.000884	0.00250	0.00300	1	01/28/2022 03:10	WG1809440
Total Xylenes	U		0.00106	0.00650	0.00780	1	01/28/2022 03:10	WG1809440
(S) Toluene-d8	95.5				75.0-131		01/28/2022 03:10	WG1809440
(S) 4-Bromofluorobenzene	104				67.0-138		01/28/2022 03:10	WG1809440
(S) 1,2-Dichloroethane-d4	114				70.0-130		01/28/2022 03:10	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.10	J	1.77	4.00	4.40	1	01/31/2022 14:49	WG1810265
C28-C36 Motor Oil Range	24.8		0.301	4.00	4.40	1	01/31/2022 14:49	WG1810265
(S) o-Terphenyl	71.8				18.0-148		01/31/2022 14:49	WG1810265

#### SAMPLE RESULTS - 21 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier D	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	91.6	1		01/28/2022 09:57	WG1809538	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	1440		100	20.0	218	10	01/27/2022 23:23	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.644	0.100	2.97	25	01/28/2022 02:00	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.6				77.0-120		01/28/2022 02:00	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000554	0.00100	0.00119	1	01/28/2022 03:29	WG1809440
Toluene	U		0.00154	0.00500	0.00593	1	01/28/2022 03:29	WG1809440
Ethylbenzene	U		0.000874	0.00250	0.00297	1	01/28/2022 03:29	WG1809440
Total Xylenes	U		0.00104	0.00650	0.00771	1	01/28/2022 03:29	WG1809440
(S) Toluene-d8	96.3				75.0-131		01/28/2022 03:29	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 03:29	WG1809440
(S) 1,2-Dichloroethane-d4	111				70.0-130		01/28/2022 03:29	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.47	J	1.76	4.00	4.36	1	01/31/2022 14:05	WG1810264
C28-C36 Motor Oil Range	18.4		0.299	4.00	4.36	1	01/31/2022 14:05	WG1810264
(S) o-Terphenyl	73.4				18.0-148		01/31/2022 14:05	WG1810264

#### SAMPLE RESULTS - 22 L1455251

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# Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.3		1	01/28/2022 09:57	WG1809538	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0										
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn	
Chloride	14700		1050	20.0	2290	100	01/27/2022 23:33	WG1809416		

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.706	0.100	3.25	25	01/28/2022 02:22	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.3				77.0-120		01/28/2022 02:22	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	0.000734	J	0.000608	0.00100	0.00130	1	01/28/2022 03:48	WG1809440
Toluene	0.00346	J	0.00169	0.00500	0.00651	1	01/28/2022 03:48	WG1809440
Ethylbenzene	U		0.000959	0.00250	0.00325	1	01/28/2022 03:48	WG1809440
Total Xylenes	0.00722	J	0.00115	0.00650	0.00846	1	01/28/2022 03:48	WG1809440
(S) Toluene-d8	94.6				75.0-131		01/28/2022 03:48	WG1809440
(S) 4-Bromofluorobenzene	102				67.0-138		01/28/2022 03:48	WG1809440
(S) 1,2-Dichloroethane-d4	112				70.0-130		01/28/2022 03:48	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	14.2		1.84	4.00	4.58	1	01/31/2022 17:55	WG1810264
C28-C36 Motor Oil Range	30.9		0.314	4.00	4.58	1	01/31/2022 17:55	WG1810264
(S) o-Terphenyl	58.7				18.0-148		01/31/2022 17:55	WG1810264

#### SAMPLE RESULTS - 23 L1455251

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# Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch	Ср	l
Analyte	%			date / time		2	i
Total Solids	92.6		1	01/28/2022 09:57	WG1809538	ЪС	l

#### Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0											
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn		
Chloride	5620		99.4	20.0	216	10	01/27/2022 23:43	WG1809416			

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.641	0.100	2.95	25	01/28/2022 02:44	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.1				77.0-120		01/28/2022 02:44	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000552	0.00100	0.00118	1	01/28/2022 04:07	WG1809440
Toluene	U		0.00154	0.00500	0.00591	1	01/28/2022 04:07	WG1809440
Ethylbenzene	U		0.000871	0.00250	0.00295	1	01/28/2022 04:07	WG1809440
Total Xylenes	U		0.00104	0.00650	0.00768	1	01/28/2022 04:07	WG1809440
(S) Toluene-d8	96.9				75.0-131		01/28/2022 04:07	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 04:07	WG1809440
(S) 1,2-Dichloroethane-d4	116				70.0-130		01/28/2022 04:07	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.58	J	1.74	4.00	4.32	1	01/31/2022 18:49	WG1810264
C28-C36 Motor Oil Range	13.8		0.296	4.00	4.32	1	01/31/2022 18:49	WG1810264
(S) o-Terphenyl	72.4				18.0-148		01/31/2022 18:49	WG1810264

#### SAMPLE RESULTS - 24 L1455251

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		89.8		1	01/28/2022 09:57	<u>WG1809538</u>	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	6120		107	20.0	232	10.4	01/28/2022 00:08	WG1809416	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.685	0.100	3.16	25	01/28/2022 03:06	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	90.8				77.0-120		01/28/2022 03:06	WG1809449	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000590	0.00100	0.00126	1	01/28/2022 04:26	WG1809440
Toluene	U		0.00164	0.00500	0.00632	1	01/28/2022 04:26	WG1809440
Ethylbenzene	U		0.000931	0.00250	0.00316	1	01/28/2022 04:26	WG1809440
Total Xylenes	U		0.00111	0.00650	0.00821	1	01/28/2022 04:26	WG1809440
(S) Toluene-d8	96.4				75.0-131		01/28/2022 04:26	WG1809440
(S) 4-Bromofluorobenzene	104				67.0-138		01/28/2022 04:26	WG1809440
(S) 1,2-Dichloroethane-d4	110				70.0-130		01/28/2022 04:26	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.87		1.79	4.00	4.45	1	01/31/2022 18:35	WG1810264
C28-C36 Motor Oil Range	19.5		0.305	4.00	4.45	1	01/31/2022 18:35	WG1810264
(S) o-Terphenyl	76.2				18.0-148		01/31/2022 18:35	WG1810264

SDG: L1455251

DATE/TIME: 02/01/22 13:17

PAGE: 26 of 56

#### SAMPLE RESULTS - 25 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	83.5		1	01/28/2022 09:57	WG1809538	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	5360		110	20.0	239	10	01/28/2022 00:17	WG1809416	

# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.926	0.100	4.27	31.5	01/28/2022 03:28	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	89.7				77.0-120		01/28/2022 03:28	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000797	0.00100	0.00171	1.26	01/28/2022 04:45	WG1809440
Toluene	U		0.00222	0.00500	0.00853	1.26	01/28/2022 04:45	WG1809440
Ethylbenzene	U		0.00126	0.00250	0.00427	1.26	01/28/2022 04:45	WG1809440
Total Xylenes	U		0.00150	0.00650	0.0111	1.26	01/28/2022 04:45	WG1809440
(S) Toluene-d8	96.0				75.0-131		01/28/2022 04:45	WG1809440
(S) 4-Bromofluorobenzene	104				67.0-138		01/28/2022 04:45	WG1809440
(S) 1,2-Dichloroethane-d4	111				70.0-130		01/28/2022 04:45	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.35	J	1.93	4.00	4.79	1	01/31/2022 14:19	WG1810264
C28-C36 Motor Oil Range	5.68		0.328	4.00	4.79	1	01/31/2022 14:19	WG1810264
(S) o-Terphenyl	53.2				18.0-148		01/31/2022 14:19	WG1810264

#### SAMPLE RESULTS - 26 L1455251

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# Total Solids by Method 2540 G-2011

	R	esult <u>Qualifi</u>	er Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	84	1.4	1	01/28/2022 10:26	<u>WG1809539</u>	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry by	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	4110		109	20.0	237	10	01/28/2022 00:46	WG1809416	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.759	0.100	3.50	25	01/28/2022 03:50	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	91.1				77.0-120		01/28/2022 03:50	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000653	0.00100	0.00140	1	01/28/2022 05:04	WG1809440
Toluene	U		0.00182	0.00500	0.00699	1	01/28/2022 05:04	WG1809440
Ethylbenzene	U		0.00103	0.00250	0.00350	1	01/28/2022 05:04	WG1809440
Total Xylenes	U		0.00123	0.00650	0.00909	1	01/28/2022 05:04	WG1809440
(S) Toluene-d8	95.6				75.0-131		01/28/2022 05:04	WG1809440
(S) 4-Bromofluorobenzene	104				67.0-138		01/28/2022 05:04	WG1809440
(S) 1,2-Dichloroethane-d4	115				70.0-130		01/28/2022 05:04	WG1809440

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.02		1.91	4.00	4.74	1	01/31/2022 18:08	WG1810264
C28-C36 Motor Oil Range	32.7		0.325	4.00	4.74	1	01/31/2022 18:08	WG1810264
(S) o-Terphenyl	62.2				18.0-148		01/31/2022 18:08	WG1810264

#### SAMPLE RESULTS - 28 L1455251

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# Total Solids by Method 2540 G-2011

							l'Cn	
	F	Result	Qualifier	Dilution	Analysis	Batch	Cp	
Analyte	9	6			date / time		2	ī
Total Solids	5	86.9		1	01/28/2022 10:26	WG1809539	Tc	

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	3300		106	20.0	230	10	01/28/2022 00:55	WG1809416	CIT

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.717	0.100	3.30	25	01/28/2022 04:12	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	89.6				77.0-120		01/28/2022 04:12	WG1809449	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	0.000706	J	0.000617	0.00100	0.00132	1	01/28/2022 05:23	WG1809440
Toluene	U		0.00172	0.00500	0.00661	1	01/28/2022 05:23	WG1809440
Ethylbenzene	U		0.000974	0.00250	0.00330	1	01/28/2022 05:23	WG1809440
Total Xylenes	U		0.00116	0.00650	0.00859	1	01/28/2022 05:23	WG1809440
(S) Toluene-d8	95.4				75.0-131		01/28/2022 05:23	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 05:23	WG1809440
(S) 1,2-Dichloroethane-d4	111				70.0-130		01/28/2022 05:23	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.94	J	1.85	4.00	4.60	1	01/31/2022 14:32	WG1810264
C28-C36 Motor Oil Range	11.9		0.315	4.00	4.60	1	01/31/2022 14:32	WG1810264
(S) o-Terphenyl	72.5				18.0-148		01/31/2022 14:32	WG1810264

# SAMPLE RESULTS - 29

# Total Solids by Method 2540 G-2011

						10	Cn
	Result	Qualifier	Dilution	Analysis	Batch		-μ
Analyte	%			date / time		2	
Total Solids	86.3		1	01/28/2022 10:26	WG1809539	T	Гс

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	ma/ka	Quaimer	mg/kg	mg/kg	mg/kg	Dilution	date / time	Baten	4
Chloride	1160		53.3	20.0	116	5	01/28/2022 01:05	WG1809416	(

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.717	0.100	3.31	25	01/28/2022 04:34	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.4				77.0-120		01/28/2022 04:34	WG1809449

### Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000617	0.00100	0.00132	1	01/28/2022 05:42	WG1809440
Toluene	U		0.00172	0.00500	0.00661	1	01/28/2022 05:42	WG1809440
Ethylbenzene	U		0.000974	0.00250	0.00331	1	01/28/2022 05:42	WG1809440
Total Xylenes	U		0.00116	0.00650	0.00859	1	01/28/2022 05:42	WG1809440
(S) Toluene-d8	96.3				75.0-131		01/28/2022 05:42	WG1809440
(S) 4-Bromofluorobenzene	104				67.0-138		01/28/2022 05:42	WG1809440
(S) 1,2-Dichloroethane-d4	113				70.0-130		01/28/2022 05:42	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.87	4.00	4.64	1	01/31/2022 14:46	WG1810264
C28-C36 Motor Oil Range	6.14		0.318	4.00	4.64	1	01/31/2022 14:46	WG1810264
(S) o-Terphenyl	62.6				18.0-148		01/31/2022 14:46	WG1810264

DATE/TIME: 02/01/22 13:17

<sup>2</sup>Tc <sup>3</sup>Ss <sup>4</sup>Cn <sup>5</sup>Tr <sup>6</sup>Sr <sup>7</sup>Qc <sup>8</sup>Gl

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#### SAMPLE RESULTS - 30 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	86.3		1	01/28/2022 10:26	<u>WG1809539</u>	⁻Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry by	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	751		10.8	20.0	23.4	1.01	01/28/2022 01:14	WG1809416	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	_ ;
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.753	0.100	3.47	26.5	01/28/2022 04:56	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	90.6				77.0-120		01/28/2022 04:56	WG1809449	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000648	0.00100	0.00139	1.06	01/28/2022 06:01	WG1809440
Toluene	U		0.00180	0.00500	0.00694	1.06	01/28/2022 06:01	WG1809440
Ethylbenzene	U		0.00102	0.00250	0.00347	1.06	01/28/2022 06:01	WG1809440
Total Xylenes	U		0.00122	0.00650	0.00902	1.06	01/28/2022 06:01	WG1809440
(S) Toluene-d8	95.4				75.0-131		01/28/2022 06:01	WG1809440
(S) 4-Bromofluorobenzene	101				67.0-138		01/28/2022 06:01	WG1809440
(S) 1,2-Dichloroethane-d4	115				70.0-130		01/28/2022 06:01	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.97	J	1.87	4.00	4.64	1	01/31/2022 14:59	WG1810264
C28-C36 Motor Oil Range	7.78		0.318	4.00	4.64	1	01/31/2022 14:59	WG1810264
(S) o-Terphenyl	75.3				18.0-148		01/31/2022 14:59	WG1810264

SDG: L1455251

#### SAMPLE RESULTS - 31 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	88.3		1	01/28/2022 10:26	<u>WG1809539</u>		Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	39.7		10.6	20.0	23.1	1.02	01/28/2022 01:24	WG1809416	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.785	0.100	3.62	29	01/28/2022 05:18	WG1809449
(S) a,a,a-Trifluorotoluene(FID)	90.6				77.0-120		01/28/2022 05:18	WG1809449

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000676	0.00100	0.00145	1.16	01/28/2022 06:20	WG1809440
Toluene	U		0.00188	0.00500	0.00723	1.16	01/28/2022 06:20	WG1809440
Ethylbenzene	U		0.00107	0.00250	0.00362	1.16	01/28/2022 06:20	WG1809440
Total Xylenes	U		0.00127	0.00650	0.00940	1.16	01/28/2022 06:20	WG1809440
(S) Toluene-d8	95.7				75.0-131		01/28/2022 06:20	WG1809440
(S) 4-Bromofluorobenzene	102				67.0-138		01/28/2022 06:20	WG1809440
(S) 1,2-Dichloroethane-d4	115				70.0-130		01/28/2022 06:20	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	J	1.82	4.00	4.53	1	01/31/2022 15:13	WG1810264
C28-C36 Motor Oil Range	12.0		0.310	4.00	4.53	1	01/31/2022 15:13	WG1810264
(S) o-Terphenyl	67.9				18.0-148		01/31/2022 15:13	WG1810264

#### SAMPLE RESULTS - 32 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier Dilu	tion Analysis	Batch	 Ср
Analyte	%		date / time		 2
Total Solids	88.8	1	01/28/2022 10:2	6 <u>WG1809539</u>	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	46.4		10.8	20.0	23.4	1.04	01/28/2022 01:33	WG1809416	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	- 1
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.687	0.100	3.17	25.3	01/28/2022 05:40	WG1809449	
(S) a,a,a-Trifluorotoluene(FID)	89.6				77.0-120		01/28/2022 05:40	WG1809449	

### Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000591	0.00100	0.00126	1.01	01/28/2022 06:39	WG1809440
Toluene	U		0.00164	0.00500	0.00632	1.01	01/28/2022 06:39	WG1809440
Ethylbenzene	U		0.000932	0.00250	0.00317	1.01	01/28/2022 06:39	WG1809440
Total Xylenes	U		0.00111	0.00650	0.00821	1.01	01/28/2022 06:39	WG1809440
(S) Toluene-d8	95.5				75.0-131		01/28/2022 06:39	WG1809440
(S) 4-Bromofluorobenzene	103				67.0-138		01/28/2022 06:39	WG1809440
(S) 1,2-Dichloroethane-d4	111				70.0-130		01/28/2022 06:39	WG1809440

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.04	J	1.81	4.00	4.51	1	01/31/2022 15:26	WG1810264
C28-C36 Motor Oil Range	19.2		0.309	4.00	4.51	1	01/31/2022 15:26	WG1810264
(S) o-Terphenyl	74.7				18.0-148		01/31/2022 15:26	WG1810264

#### SAMPLE RESULTS - 35 L1455251

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# Total Solids by Method 2540 G-2011

	Res	ult Qualifie	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	86.3	}	1	01/28/2022 10:26	WG1809539	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry b	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	5980		107	20.0	232	10	01/28/2022 02:40	WG1809423	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	— L
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.899	J	0.752	0.100	3.47	26.5	01/28/2022 02:39	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 02:39	WG1809503	-

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000648	0.00100	0.00139	1.06	01/28/2022 06:07	WG1809490
Toluene	U		0.00180	0.00500	0.00693	1.06	01/28/2022 06:07	WG1809490
Ethylbenzene	U		0.00102	0.00250	0.00347	1.06	01/28/2022 06:07	WG1809490
Total Xylenes	0.00271	J	0.00122	0.00650	0.00901	1.06	01/28/2022 06:07	WG1809490
(S) Toluene-d8	100				75.0-131		01/28/2022 06:07	WG1809490
(S) 4-Bromofluorobenzene	92.0				67.0-138		01/28/2022 06:07	WG1809490
(S) 1,2-Dichloroethane-d4	101				70.0-130		01/28/2022 06:07	WG1809490

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.47	J	1.87	4.00	4.64	1	01/31/2022 16:07	WG1810264
C28-C36 Motor Oil Range	11.6		0.317	4.00	4.64	1	01/31/2022 16:07	WG1810264
(S) o-Terphenyl	61.9				18.0-148		01/31/2022 16:07	WG1810264

#### SAMPLE RESULTS - 36 L1455251

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch				
Analyte	%			date / time					ī
Total Solids	85.8		1	01/28/2022 10:26	WG1809539				
Wet Chemistry by	Method 300.0								
	Result (dry)	Qualifier	SDL (dı	y) Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	L
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		[
Chloride	4740	V	107	20.0	233	10	01/28/2022 02:50	WG1809423	
emonae									

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	4740	V	107	20.0	233	10	01/28/2022 02:50	WG1809423	

#### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	6	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		۳Sr	r
TPH (GC/FID) Low Fraction	U		0.760	0.100	3.50	26.5	01/28/2022 03:02	WG1809503		
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 03:02	WG1809503	7	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000654	0.00100	0.00140	1.06	01/28/2022 04:29	WG1809491
Toluene	U		0.00182	0.00500	0.00700	1.06	01/28/2022 04:29	WG1809491
Ethylbenzene	U		0.00103	0.00250	0.00350	1.06	01/28/2022 04:29	WG1809491
Total Xylenes	0.00157	J	0.00123	0.00650	0.00910	1.06	01/28/2022 04:29	WG1809491
(S) Toluene-d8	97.6				75.0-131		01/28/2022 04:29	WG1809491
(S) 4-Bromofluorobenzene	101				67.0-138		01/28/2022 04:29	WG1809491
(S) 1,2-Dichloroethane-d4	116				70.0-130		01/28/2022 04:29	WG1809491

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.38	J	1.88	4.00	4.66	1	01/31/2022 16:20	WG1810264
C28-C36 Motor Oil Range	15.7		0.319	4.00	4.66	1	01/31/2022 16:20	WG1810264
(S) o-Terphenyl	79.8				18.0-148		01/31/2022 16:20	WG1810264

#### SAMPLE RESULTS - 39 L1455251

# Volatile Organic Compounds (GC/MS) by Method 8260B

Volatile Organic Com								
	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	0.00100	1	01/27/2022 15:43	WG1809290
Toluene	U		0.000278	0.00100	0.00100	1	01/27/2022 15:43	WG1809290
Ethylbenzene	U		0.000137	0.00100	0.00100	1	01/27/2022 15:43	WG1809290
Total Xylenes	U		0.000174	0.00300	0.00300	1	01/27/2022 15:43	WG1809290
(S) Toluene-d8	96.7				80.0-120		01/27/2022 15:43	WG1809290
(S) 4-Bromofluorobenzene	99.4				77.0-126		01/27/2022 15:43	WG1809290
(S) 1,2-Dichloroethane-d4	122				70.0-130		01/27/2022 15:43	WG1809290

⁵Tr
<sup>6</sup> Sr
<sup>7</sup> Qc
<sup>°</sup> Gl
<sup>9</sup> Al
<sup>10</sup> Sc

Released to Imaging: 21/2022 8:11:41 AM Altamira - Angleton, TX

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#### Reg @ q & by OGD \$/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

#### QUALITY CONTROL SUMMARY L1455251-01,02,06,07

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#### Method Blank (MB)

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(MB) R3754706-1	01/28/22 07:11				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.00100				
					<sup>3</sup> Ss

#### L1455251-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1455251-06 01/28/22 07:11 · (DUP) R3754706-3 01/28/22 07:11         Original Result       DUP Result       DUP RPD       DUP Qualifier       DUP RPD Limits         Analyte       %       %       %       %         Total Solids       94.1       92.8       1       1.34       10	L1455251-06 Origir
Analyte % % %	(OS) L1455251-06 01/28/2
Total Solids 94.1 92.8 1 1.34 10	Analyte
	Total Solids

#### Laboratory Control Sample (LCS)

(LCS) R3754706-2 0	(LCS) R3754706-2 01/28/22 07:11							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	%	%	%	%				
Total Solids	50.0	50.0	100	85.0-115				

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#### Reg @ q & by OGD3 & 20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

#### QUALITY CONTROL SUMMARY L1455251-14,15,18,19,20,21,22,23,24,25

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#### Method Blank (MB)

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(MB) R3754835-1 C	J1/28/22 09:57					, CP
	MB Result	MB Qualifier	MB MDL	MB RDL		2
Analyte	%		%	%		Tc
Total Solids	0.00100					
					3	<sup>3</sup> Ss

#### L1455251-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1455251-25 01/28/2	22 09:57 • (DUF	P) R3754835-3	3 01/28/22	09:57		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.5	83.4	1	0.0977		10

#### Laboratory Control Sample (LCS)

(LCS) R3754835-2 0	(LCS) R3754835-2 01/28/22 09:57							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	%	%	%	%				
Total Solids	50.0	50.0	100	85.0-115				

SDG: L1455251

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#### Reg @ q & by OGD 5/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

#### QUALITY CONTROL SUMMARY L1455251-26,28,29,30,31,32,35,36

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#### Method Blank (MB)

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01/28/22 10:26					Ch
MB Result	MB Qualifier	MB MDL	MB RDL		2
%		%	%		Tc
0.000					
					<sup>3</sup> Ss
	01/28/22 10:26 MB Result %	01/28/22 10:26 MB Result <u>MB Qualifier</u> %	01/28/22 10:26 MB Result <u>MB Qualifier</u> MB MDL % %	M/28/22 10:26       MB Result     MB Qualifier     MB MDL     MB RDL       %     %     %	M/28/22 10:26 MB Result MB Qualifier MB MDL MB RDL % % %

#### L1454978-01 Original Sample (OS) • Duplicate (DUP)

L1454978-01 Ori	ginal Sample	(OS) • Dur	plicate (	DUP)				4
(OS) L1454978-01 01/2	28/22 10:26 • (DUF	י) R3754836-3	01/28/22	10:26				
	Original Resul <sup>®</sup>	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		5 <sub>T</sub>
Analyte	%	%		%		%		
Total Solids	70.7	70.3	1	0.550		10		<sup>6</sup> 5

#### Laboratory Control Sample (LCS)

(LCS) R3754836-2 07	(LCS) R3754836-2 01/28/22 10:26								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	%	%	%	%					
Total Solids	50.0	50.0	100	85.0-115					

SDG: L1455251

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Wet Chemistry by Method 300.0

#### QUALITY CONTROL SUMMARY L1455251-01,02,06,07,14,15,18,19,20,21,22,23,24,25,26,28,29,30,31,32

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#### Method Blank (MB)

Method Bidh				
(MB) R3754647-1	01/27/22 19:32			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

#### L1455251-02 Original Sample (OS) • Duplicate (DUP)

L1455251-02 Origin	nal Sample	(OS) • Dup	olicate (	DUP)		
(OS) L1455251-02 01/27/2	2 21:20 • (DUP)	R3754647-3	01/27/22	21:29		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	162	160	1	0.740		20

#### L1455251-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1455251-23 01/27/2	2 23:43 • (DUP)	R3754647-6	01/27/22	23:59		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	5620	5060	10	10.5		20

#### Laboratory Control Sample (LCS)

(LCS) R3754647-2 01/27	6) R3754647-2 01/27/22 19:41											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/kg	mg/kg	%	%								
Chloride	200	196	98.0	90.0-110								

#### L1455251-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-02 01/27/2	OS) L1455251-02 01/27/22 21:20 • (MS) R3754647-4 01/27/22 21:39 • (MSD) R3754647-5 01/27/22 21:48												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	528	162	664	649	95.1	92.3	1	80.0-120			2.29	20	

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Wet Chemistry by Method 300.0

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#### Method Blank (MB)

(MB) R3754648-1 01/	B) R3754648-1 01/28/22 02:02								
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/kg		mg/kg	mg/kg					
Chloride	U		9.20	20.0					

#### L1455251-36 Original Sample (OS) • Duplicate (DUP)

OCS) L1455251-36       O1/28/2       O2:50 + (DUP)       R3754648-3       O1/28/2       O2:59         Original Result (dry)       DUP Result (dry)       DUP RPD       DUP Qualifier       DUP RPD Limits         Analyte       mg/kg       mg/kg       %       %         Chloride       4740       4690       10       1.10       20	L1455251-56 Oligii	iai Sample	(OS) • Dup	nicate (	DUP)			
(dry) (dry) Dilution DUP RPD DUP Qualifier Limits Analyte mg/kg mg/kg % %	(OS) L1455251-36 01/28/2	2 02:50 • (DUP	) R3754648-3	01/28/22	2 02:59			
				Dilution	DUP RPD	DUP Qualifier		
Chloride 4740 4690 10 1.10 20	Analyte	mg/kg	mg/kg		%			
	Chloride	4740	4690	10	1.10		)	

### L1455262-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1455262-12 01/28/2	2 05:12 • (DUP)	) R3754648-6	01/28/22	05:22		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
alyte	mg/kg	mg/kg		%		%
Chloride	10.1	11.5	1	13.3	J	20

#### Laboratory Control Sample (LCS)

(LCS) R3754648-2 01/28	s) R3754648-2 01/28/22 02:11											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/kg	mg/kg	%	%								
Chloride	200	199	99.7	90.0-110								

#### L1455251-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-36 01/28/2	DS) L1455251-36 01/28/22 02:50 • (MS) R3754648-4 01/28/22 03:09 • (MSD) R3754648-5 01/28/22 03:18												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	583	4740	5210	5350	79.9	104	10	80.0-120	V		2.65	20	

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Volatile Organic Compounds (GC) by Method 8015D/GRO

#### QUALITY CONTROL SUMMARY L1455251-01,02,06,07,14,15,18,19,20,21,22,23,24,25,26,28,29,30,31,32

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#### Method Blank (MB)

(MB) R3754565-2 01/27/2	22 20:17				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.543	2.50	
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120	

#### Laboratory Control Sample (LCS)

(LCS) R3754565-1 01/27/	/22 19:17				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.99	90.7	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			116	77.0-120	

#### L1455251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-01 01/27/22	DS) L1455251-01 01/27/22 22:43 • (MS) R3754565-3 01/28/22 06:02 • (MSD) R3754565-4 01/28/22 06:24													
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%		
TPH (GC/FID) Low Fraction	155	U	139	139	89.5	89.5	26	10.0-151			0.000	28		
(S) a,a,a-Trifluorotoluene(FID)					110	111		77.0-120						

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Volatile Organic Compounds (GC) by Method 8015D/GRO

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#### Method Blank (MB)

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(MB) R3755223-2 01/28/	22 01:56				СР
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Tc
TPH (GC/FID) Low Fraction	U		0.543	2.50	
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120	<sup>3</sup> Ss

### Laboratory Control Sample (LCS)

(LCS) R3755223-1 01/28/	/22 00:30				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.35	97.3	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			101	77.0-120	

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#### Method Blank (MB)

(MB) R3755036-3 01/27/2	2 12:03			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	96.9			80.0-120
(S) 4-Bromofluorobenzene	98.4			77.0-126
(S) 1,2-Dichloroethane-d4	120			70.0-130

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3755036-1 01/27/2	(LCS) R3755036-1 01/27/22 10:29 • (LCSD) R3755036-2 01/27/22 10:48											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%		
Benzene	0.00500	0.00452	0.00452	90.4	90.4	70.0-123			0.000	20		
Ethylbenzene	0.00500	0.00453	0.00444	90.6	88.8	79.0-123			2.01	20		
Toluene	0.00500	0.00440	0.00430	88.0	86.0	79.0-120			2.30	20		
Xylenes, Total	0.0150	0.0133	0.0131	88.7	87.3	79.0-123			1.52	20		
(S) Toluene-d8				94.9	96.3	80.0-120						
(S) 4-Bromofluorobenzene				99.2	100	77.0-126						
(S) 1,2-Dichloroethane-d4				117	118	70.0-130						

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#### QUALITY CONTROL SUMMARY 1455251-01,02,06,07,14,15,18,19,20,21,22,23,24,25,26,28,29,30,31,32

(MB) R3754678-3 01/28/2	22 00:19			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	94.7			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	119			70.0-130

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3754678-1 01/27/	LCS) R3754678-1 01/27/22 23:03 • (LCSD) R3754678-2 01/27/22 23:23											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%		
Benzene	0.125	0.135	0.123	108	98.4	70.0-123			9.30	20		
Ethylbenzene	0.125	0.118	0.107	94.4	85.6	74.0-126			9.78	20		
Toluene	0.125	0.120	0.108	96.0	86.4	75.0-121			10.5	20		
Xylenes, Total	0.375	0.347	0.317	92.5	84.5	72.0-127			9.04	20		
(S) Toluene-d8				92.8	92.3	75.0-131						
(S) 4-Bromofluorobenzene				102	103	67.0-138						
(S) 1,2-Dichloroethane-d4				128	124	70.0-130						

#### L1455251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-01 01/28/22	OS) L1455251-01 01/28/22 00:38 • (MS) R3754678-4 01/28/22 06:58 • (MSD) R3754678-5 01/28/22 07:17												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Benzene	0.141	U	0.120	0.126	85.4	89.2	1.04	10.0-149			4.41	37	
Ethylbenzene	0.141	U	0.116	0.116	82.3	82.3	1.04	10.0-160			0.000	38	
Toluene	0.141	U	0.114	0.115	80.8	81.5	1.04	10.0-156			0.948	38	
Xylenes, Total	0.423	U	0.335	0.341	79.2	80.5	1.04	10.0-160			1.61	38	
(S) Toluene-d8					93.8	93.7		75.0-131					
(S) 4-Bromofluorobenzene					103	102		67.0-138					
(S) 1,2-Dichloroethane-d4					115	118		70.0-130					

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# Method Blank (MB)

(MB) R3754405-3 01/27/2	B) R3754405-3 01/27/22 23:00										
	MB Result	MB Qualifier	MB MDL	MB RDL							
Analyte	mg/kg		mg/kg	mg/kg							
Benzene	U		0.000467	0.00100							
Ethylbenzene	U		0.000737	0.00250							
Toluene	U		0.00130	0.00500							
Xylenes, Total	U		0.000880	0.00650							
(S) Toluene-d8	104			75.0-131							
(S) 4-Bromofluorobenzene	93.3			67.0-138							
(S) 1,2-Dichloroethane-d4	97.0			70.0-130							

# Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3754405-1 01/27/2	(LCS) R3754405-1 01/27/22 21:25 • (LCSD) R3754405-2 01/27/22 21:44											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%		
Benzene	0.125	0.128	0.128	102	102	70.0-123			0.000	20		
Ethylbenzene	0.125	0.123	0.123	98.4	98.4	74.0-126			0.000	20		
Toluene	0.125	0.125	0.125	100	100	75.0-121			0.000	20		
Xylenes, Total	0.375	0.361	0.356	96.3	94.9	72.0-127			1.39	20		
(S) Toluene-d8				101	102	75.0-131						
(S) 4-Bromofluorobenzene				96.3	93.3	67.0-138						
(S) 1,2-Dichloroethane-d4				113	109	70.0-130						

# L1455205-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455205-41 01/28/2	(OS) L1455205-41 01/28/22 01:40 • (MS) R3754405-4 01/28/22 06:26 • (MSD) R3754405-5 01/28/22 06:45											
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Benzene	0.125	U	0.168	0.147	96.8	84.8	1	10.0-149			13.2	37
Ethylbenzene	0.125	U	0.177	0.157	102	90.4	1	10.0-160			11.7	38
Toluene	0.125	U	0.171	0.149	98.4	85.6	1	10.0-156			13.9	38
Xylenes, Total	0.375	U	0.518	0.451	99.2	86.4	1	10.0-160			13.8	38
(S) Toluene-d8					102	101		75.0-131				
(S) 4-Bromofluorobenzene					94.3	92.0		67.0-138				
(S) 1,2-Dichloroethane-d4					98.5	97.2		70.0-130				

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#### Method Blank (MB)

(MB) R3755032-3 01/27/2	22 23:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	97.1			67.0-138
(S) 1,2-Dichloroethane-d4	118			70.0-130

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3755032-1 01/27/2	(LCS) R3755032-1 01/27/22 22:00 · (LCSD) R3755032-2 01/27/22 22:19											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%		
Benzene	0.125	0.126	0.122	101	97.6	70.0-123			3.23	20		
Ethylbenzene	0.125	0.119	0.112	95.2	89.6	74.0-126			6.06	20		
Toluene	0.125	0.118	0.115	94.4	92.0	75.0-121			2.58	20		
Xylenes, Total	0.375	0.353	0.334	94.1	89.1	72.0-127			5.53	20		
(S) Toluene-d8				97.2	96.9	75.0-131						
(S) 4-Bromofluorobenzene				97.9	99.2	67.0-138						
(S) 1,2-Dichloroethane-d4				122	122	70.0-130						

SDG: L1455251 DATE/TIME: 02/01/22 13:17

PAGE: 47 of 56 Semi-Volatile Organic Compounds (GC) by Method 8015M

#### QUALITY CONTROL SUMMARY L1455251-21,22,23,24,25,26,28,29,30,31,32,35,36

Method Blank (MB)

Method Blank (ME	)				17
(MB) R3755468-1 01/31/2	22 13:38				1
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	
10-C28 Diesel Range	U		1.61	4.00	1
28-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	69.4			18.0-148	
(-))					

#### Laboratory Control Sample (LCS)

Laboratory conta	e: e ap.e (=					-
(LCS) R3755468-2 01/3	1/22 13:52					⁵Tr
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/kg	mg/kg	%	%		<sup>6</sup> Cr
C10-C28 Diesel Range	50.0	38.3	76.6	50.0-150		51
(S) o-Terphenyl			87.5	18.0-148		7

#### L1455251-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-32 01/31/22	2 15:26 • (MS) R	3755468-3 01	/31/22 15:40 • (1	MSD) R375546	68-4 01/31/221	5:53						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	54.6	3.04	45.0	40.9	76.7	69.7	1	50.0-150			9.45	20
(S) o-Terphenyl					79.6	73.8		18.0-148				

DATE/TIME: 02/01/22 13:17

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Semi-Volatile Organic Compounds (GC) by Method 8015M

#### QUALITY CONTROL SUMMARY 1455251-01,02,06,07,14,15,18,19,20

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#### Method Blank (MB)

(MB) R3755475-1 01/31/22	2 12:13				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	
C28-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	75.2			18.0-148	

#### Laboratory Control Sample (LCS)

(LCS) R3755475-2 01/31/	S) R3755475-2 01/31/22 12:26											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/kg	mg/kg	%	%								
C10-C28 Diesel Range	50.0	43.4	86.8	50.0-150								
(S) o-Terphenyl			86.2	18.0-148								

#### L1455251-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-18 01/31/22	14:23 • (MS) R3	3755475-3 01/3	31/22 15:41 • (M	SD) R3755475	-4 01/31/22 15:	54						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.7	2.66	43.8	45.1	81.0	85.1	1	50.0-150			3.04	20
(S) o-Terphenyl					86.5	88.0		18.0-148				

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#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

#### Abbreviations and Definitions

Abbreviations and	
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

The sample concentration is too high to evaluate accurate spike recoveries.

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SDG: L1455251

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee <sup>14</sup>	2006
ouisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
42LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1455251 DATE/TIME: 02/01/22 13:17

PAGE: 51 of 56

eived by OCD: 5/20/2022 3:			Billing Infor	mation:			-		A	nalvsis / C	ontainer	/ Preserva	tive	1	Chain of Custody	Page 204 of
Altamira - Angleton, 7 4001 Technology Drive, Ste 12 Angleton, TX 77515			4001 Tec	Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515												CCe° Advancing science
Report to: Bryan Haney		-		mail To: bryan.haney@altamira- s.com;Orlando.Gonzalez@Altamira-us.com		com				Syr					12065 Lebanon Rd Mou Submitting a sample via	
Project Description: CULEBRA Novo Ovation Pad O Release	BLUFF	City/State Collected:	INHAK.	NM	Please O PT MT	ircle:				/Imc					Pace Terms and Condition https://info.pacelabs.co terms.pdf	ons found at:
hone: <b>361-658-3126</b>		Collected: Loui N/G ; lient Project # VONM2103 PHASE 001		Lab Project #			NoPres		Iml/Syi	40mlAmb/MeOH10ml/Syr					SDG # 1식5 G07	
ollected by (print):			F	P.O. #			ozClr-N	DRONM 4ozClr-NoPres	40mlAmb/MeOH10ml/Syr	/mb/N					Acctnum: ALT	
ollected by (signature):	Rush?	(Lab MUST Be Day Five	Notified)	Quote #			00 40	CIr-No	M/dn	40mlA					Template: <b>T20</b> Prelogin: <b>P90</b>	
nmediately acked on Ice N Y		Day 5 Da ay 10 D		Date Result	s Needed	No. of	CHLORIDE-300 4o2Clr-	IM 402	40mlAr	V8260BTEX					PM: 134 - Mar PB: 20	22-10
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLO	DRON	GRO 4	/826(					Shippled Via: #6 Remarks	Sample # (lab only
58-1 (0-1-)	G	SS	0~1'	1/25/22	957	2	X	X	X	X						0
SB-1 (2-3-)	G	SS	2-3'	1/25/22	1004	Z	X	X	X	X						62
SB-1 (3-4-)	G	SS	3-4'	125/22	1006	2									1	03
58-1 (5-6-)	G	SS	5-6	125/22	1008	2							-			04
58-1 (9-10)	G	SS	9-10'	1/25/22	1015	2	1									0)
		SS			-			-	120				-			
		\$\$ \$\$			-		1	-								
		SS														
					-											
Matrix: S - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay VW - WasteWater	Remarks: Doc	per saw	IPLES GN	1 Hold PEN	DING					pH		Temp Other		COC Sea COC Sig Bottles	Sample Receipt Ch 1 Present/Intact: ned/Accurate: arrive intact: bottles used:	NP Y h
W - Drinking Water T - Other	Samples returne			Tracki	ng# 52	189	40	019	38	20				Suffici VOA Zer	ent volume sent: <u>If Applicab</u> o Headspace:	_¥
elinquished by : (Signature)	C	Date: 126/202	Time	: Receiv 36	ved by: (Sign	ature)			-	Trip Blank	Received	d: Yes N ACL/I TBR			ation Correct/Che een <0.5 mR/hr:	$Z_{\chi}^{\chi} =$
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Relinquished by : (Signature)	C	Date:	Time	: Recei	ved for lab b	y: (Signat	torek XI Col	n k	/	Date:	avr	Time:	14	Hold:	nilsonale h	Condition: NCF / IOK

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company numer address.	yed by OCD: 5/20/2022 3:34:57 PM			Billing Information:				-	A	nalvsis /	Contair	her / Preser	vative	Chain of Custody Page 205 of 3		
Altamira - Angleton, TX 001 Technology Drive, Ste 120 ngleton, TX 77515				aney chnology Drive n, TX 77515	Pres Chk					A CARL					CCO"	
Report to: Bryan Haney		10		oryan.haney@alta lando.Gonzalez@/		com				Syr	and the				12065 Lebanon Rd Mou Submitting a sample via	this chain of custody
Project Description: Novo Ovation Pad O Release	ULEBRA BLUFF	City/State Collected:	LOUING	, MM	NM) Please Cirv				-	Jun0					Pace Terms and Condition https://info.pacelabs.co terms.pdf	
Phone: 361-658-3126		ect #		Lab Project #	TX-NOVO		oPres		Jml/Sy	40mlAmb/MeOH10ml/Syr					SDG # 145	455251
Collected by (print): Bit 06 Site/Facility ID # CULEBRA			(F	P.O. #	P.O. #		zClr-N	oPres	eOH1(	/mb/N					Table # Acctnum: <b>ALT</b>	AMIRAATX
Collected by (signature):		(Lab MUST B	e Notified) Day y (Rad Only)	Quote # Date Result	Results Needed		CHLORIDE-300 4o2Clr-NoPres	DRONM 4ozClr-NoPres	40mlAmb/MeOH10ml/Syr						Template: <b>T20</b> Prelogin: <b>P90</b> PM: 134 - Mark	0101
Packed on Ice N Y Y	Comp/Gra	e Day	Depth	Date	Time	No. of Cntrs	HLORID	RONM	GRO 40r	V8260BTEX					PB, Contraction of the second	dEX Ground Sample # (lab only)
SB-2 (0-1')	G	SS	0-1	1/25/22	1111	12	X	X	X	X						06
SB-Z (2-3')	G	SS	2-3'	1/25/22	1119	2	X	X	X	X						07
582 (3.4')	G	SS	3-4'	1 25 22	1121	2						and				08
SBZ (4-5)	G	SS	45'	1/25/22	1123	2	12.20		-							09
SB-2 (6-7')	G	SS	6-7'	1/25/22	1129	2	1.2									10
SB-2 (8-9°)	G	SS	B9'	1252	1133	2										11
SGZ (9-10')	G	SS	9-10	1/25/22	1135	2		-		-			_	123		17
SB-2 (H-15-)	6	SS	14-15-	125/22	1140	6		-					-		-	13
		SS								-					-	
Matrix: S - Soil AIR - Air F - Filter SW - Groundwater B - Bioass WW - WasteWater	Remarks:		Somplats	PENDING /	huneysis			1		pH Flow		_ Temp _ Other		COC Seal COC Signe Bottles a	mple Receipt Ch Present/Intact: d/Accurate: arrive intact: bottles used:	_NP Y_N
DW - Drinking Water DT - Other	Samples return	ed via: Ex Courie		Tracki	<sup>ng #</sup> 54	89	401	9 :	382	0				3 22 PC 24	it volume sent: <u>If Applicabl</u> Headspace:	
Relinquished by : (Signature)		Date:	22 16	e: Receiv 30	ved by: (Signa	ature)	1-1			Trip Blan			/ MeoH	Preservat	ion Correct/Che en <0.5 mR/hr:	cked: $\sum_{Y} \sum_{N}^{N}$
Relinquished by : (Signature)		Date:	Time		ved by: (Signa	ature)				Temp: NSA	· 2.1	Bottles F	the second s	( If preservat	ion required by Log	
Relinquished by : (Signature)		Date:	Time	e: Receiv	ned for lab by	y: (Signat	Se	stru	Þ	Date:	122	Time:	900	Hold:		Condition: NCF / OK

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eived by OCD: 5/20/2022 3:34:57 PM			Billing Infor	rmation:	T		Chain of Custod	Page 206 of.						
Altamira - Angleton, 7 4001 Technology Drive, Ste 12 Angleton, TX 77515	1001 Technology Drive, Ste 120			aney chnology Drive n, TX 77515	Pres Chk							- PEOPL	ACC° E ADVANCING SCIENCE	
Report to: Bryan Haney					n.haney@altamira- o.Gonzalez@Altamira-us.com					Syr			12065 Lebanon Rd M Submitting a sample v	ia this chain of custody
Project Description:	-DING AC	City/State Collected:	LINANG			Circle:			1	ml/s			Pace Terms and Cond	Igment and acceptance of the tions found at: com/hubfs/pas-standard-
Novo Oration Pad O Reference CULE Phone: 361-658-3126	Client Project	Client Project # NVONM2104 PHASE 00		Lab Project #			oPres		GRO 40mlAmb/MeOH10ml/Syr	40mlAmb/MeOH10ml/Syr				55251
Collected by (print):				P.O. #			zClr-No	oPres	eOH10	Amb/M			Table # Acctnum: <b>AL</b>	TAMIRAATX
Collected by (signature):	d by (signature):  Rush? (Lab MUST E  Same Day Fiv				Quote #			4ozClr-NoPres	mb/M				Template: <b>T2</b> Prelogin: <b>P9</b>	00101
Immediately Packed on Ice N Y	Next Day Two Day Three Day	10 D	y (Rad Only) ay (Rad Only)	Date Resul	ts Needed	No. of	CHLORIDE-300 4ozClr-NoPres		40ml/	V8260BTEX			PB: DO	edEX Ground
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLC	DRONM	GRO	V82(			Remarks	Sample # (lab only)
58-3 (0-1)	G	SS	0-1'	1/25/22	1330	2	X	X	X	X				14
58-3 (1-2)	G	SS	1-2'	1/25/22	1333	Z	X	X	X	X				15
SB-3 (2-3)	6	SS	7-3'	125/22	1337	2								6)
58-3 (3-4-)	G	SS	3-4'	1 25 22	1342	2								17
5B4 (6-1)	G	SS	0-1	1/25/22	1410	2	X	X	X	X				18
SB-4 (1-2-)	6	SS	1-2'	125/22	1415	12	X	X	X	X	100	SUTE.		19
SB-6 (0-1)	G	SS	0-1'	125/27	1426	2	X	X	X	X		10013		20
7101	G	SS	1-2'	1/25/22	1432	12	X	V	V	Ŷ		12 12		222
	- u	SS		110/1	1445	2	TV	X	X	12				227
SB-8 (0-1-)	9	55	0-1	1/25/22	1993	6	A	1	A	X				- F)d
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:		SIDVIDIALE	s on y Hou	P 9 5VI	onh				pH _	Temp Other	COC Seal COC Sign Bottles	Tample Receipt C Present/Intact hed/Accurate: arrive intact: bottles used;	hecklist : _NP _Y _N Y _N Y _N
DW - Drinking Water OT - Other	Samples returned UPSFedEx	via: Courie		Track	<sup>ing#</sup> 50	189	90	19 -	382			VOA Zero	ant volume sent <u>If Applica</u> o Headspace: ation Correct/Cl	ole
Relinquished by (Signature)	Da	te: 126/20	72 Ib	30	ved by: (Signa					Trip Blan	k Received: (Yes) No HCL / Med TBR	H RAD Scr	een <0.5 mR/hr:	ZY _N
Relinquished by : (Signature)	Da	ite:	Time	e: Recei	ved by: (Signa	ature)				Temp:	$^{\circ}$ Bottles Receive	H If preserv	ation required by Lo	ogin: Date/Time
Relinquished by : (Signature)	Da	ite:	Time	e: Recei	ved for lab by	C	ture)	m	0		Time:	DD Hold:		Condition: NCF / OK

ceived by OCD: 5/20/2022 3:	34:57 PM		Billing Infor	mation:					A	nalvsis / Co	ntainer / Preservative		Chain of Custody	Page 207 of
Altamira - Angleton, 7 4001 Technology Drive, Ste 12 Angleton, TX 77515				ney hnology Drive, , TX 77515	, Ste 120	Pres Chk							Pa	CC Advancing science
Report to: Bryan Haney				ryan.haney@altar ando.Gonzalez@A		om				Syr			12065 Lebanon Rd Mou Submitting a sample via	
Project Description: Novo Ovation Pad O Release CUL		City/State Collected:	LOUND	NM	Please C PT MT				-	0ml/			Pace Terms and Condition https://info.pacelabs.co terms.pdf	ons found at:
Phone: 361-658-3126	Client Project #			Lab Project # ALTAMIRAAT	TX-NOVO		oPres		Iml/Sy	40mlAmb/MeOH10ml/Syr			SDG # 140	5251
ollected by (print):	Site/Facility ID	~	DIF.	P.O. #			CIr-No	Pres	eOH10	mb/M			Table # Acctnum: <b>ALT</b>	AMIRAATX
ollected by (signature)	Rush? (La	ab MUST Be	Notified)	Quote #			00 403	4ozClr-NoPres	mb/M	40mlA			Template: <b>T20</b> Prelogin: <b>P90</b>	
mmediately Packed on Ice N Y		5 Da		Date Result	s Needed	No. of	CHLORIDE-300 4ozClr-NoPres	M 402	40mlAmb/MeOH10ml/Syr	V8260BTEX			PM: 134 - Mark	W. Beasley
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLOI	DRONM	GRO 4	v8260			Shipped Via: Fe Remarks	Sample # (lab only
SB-5 (0-17)	G	55	0-1'	125/22	1457	2	X	X	X	X				242
58-5 (1-1.52)	G	SS	1-1.5'	125/2	1505	22	X	X	X	X				25
SB-9 (0-1') SB-9 (1-2')	G	SS SS	0-1	1/25/22	1523	2	X	X	XX	X				25
SB-9 (2-2.5')	6	SS	2-2.5	1/25/22	1529	2	~	~		1				24
SB-7 (0-1-)	G	SS	0-1'	1/25/22	1558	2	X	X	X	X		22		29
SB-7 (1-2-)	G	55	1-2'	1/25/22	1601	2	X	X	X	X				30
58-7 (2-2.5)	G	SS	2-25	1 25/22	1613	2	1250							51
		SS			1	+								
Matrix: S - Soil AIR - Air F - Filter W - Groundwater B - Bioassay WW - WasteWater	Remarks:	per 210	mares c	in Hold P	Evonue					pH	Temp Other	COC Seal Pr COC Signed, Bottles ar	le Receipt Ch resent/Intact: (Accurate: rive intact: ctles used:	NP Y
DW - Drinking Water DT - Other	Samples returned UPS FedEx			Tracki	<sup>ng#</sup> 5	489	74	019	3	820		VOA Zero He	volume sent: If Applicable adspace:	Y I
telinguished by : (Signature)	Dat		7. M	3D Receiv	ved by: (Signa	iture)	-		1	Trip Blank I	Received Yes No HCL / MeoH TBR	Preservatio	on Correct/Che <0.5 mR/hr:	right cked: Y = Y = 1
Relinquished by : (Signature)	Dat	te:	Time	Receiv	ved by: (Signa	iture)				Temp: NSA60	°C Bottles Received:	$\rho$ If preservatio	n required by Log	in: Date/Time
Relinquished by : (Signature)	Dat	te:	Time		ved for lab by		Ste	Khu	D	Date:	Time:	Hold:		Condition: NCF OK

cived by OCD: 5/20/2022 3:34	4:57 PM		Billing Infor	mation:		T			A	nalvsis / Cou	ntainer / Presen	ative		Chain of Custody	Page 208 of
Altamira - Angleton, TX 4001 Technology Drive, Ste 120 Angleton, TX 77515		1 12 1		nney hnology Drive n, TX 77515	e, Ste 120	Pres Chk									ADVANCING SCIENCE
Report to: <b>Bryan Haney</b>				ryan.haney@alta ando.Gonzalez@		com				Syr				12065 Lebanon Rd Mo Submitting a sample via	
Project Description: Novo Ovation Pad O Release CULCS		City/State Collected:	LOUNG	MM	Please O PT MT					/Im(				Pace Terms and Conditi https://info.pacelabs.co terms.pdf	ons found at:
Phone: 361-658-3126	Client Project			Lab Project # ALTAMIRAA	TX-NOVO		oPres		ml/Syl	40mlAmb/MeOH10ml/Syr					55251
Collected by (print):	Site/Facility ID			P.O. #			zClr-No	Pres	eOH10	/mb/N				Table # Acctnum: <b>ALT</b>	AMIRAATX
Collected by (signature):	Rush? (L Same Da Next Day Two Day	ab MUST Be ay Five y 5 Da y 10 D		Quote # Date Result	ts Needed	No.	CHLORIDE-300 4o2Clr-NoPres	DRONM 4ozClr-NoPres	40mlAmb/MeOH10ml/Syr					Template: <b>T20</b> Prelogin: <b>P90</b> PM: <b>134 - Mar</b> PB:	0101
Packed on Ice N Y Sample ID	Comp/Grab	ay Matrix *	Depth	Date	Time	of Cntrs	HLORI	RONN	GRO 40	V8260BTEX					Sample # (lab only)
58-10 (0-1')	G	55	0-1'	1/25/22	1612	2	X	X	X	X					31
58-10 (1-2-)	G	SS	1-2'	Insta	1615	Z	X	X	X	X			-		32
58-10 (2.3)	G	SS	2.3'	12512	1619	2									33
SB-10 (3-4-)	G	SS	3-4'	1 RS12	1623	2	-		-	V					34
SB-11 (0-1)	6	SS	0-1	1/25/22	1631	12	X	X	X	X		-			37
58-11 (1-21)	6	SS	1-2'	125/22	1633	-	X	X	X	X			1000		26
SB-11 (2-3')	G	55	2-3	1/25/22	1636							-	1222		37
58-11 (3-1)	6	SS	3-4	ipstre	1640	2	125	-				12			28
		SS SS				-	1	-							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	seren	SAMP	LES ON HO	LO PEN	DINK				pH	Temp Other		COC Seal P COC Signed Bottles ar	ple Receipt Ch Present/Intact: N/Accurate: rrive intact: ottles used:	ecklist NP Y N Y N
DW - Drinking Water OT - Other	Samples returned UPS X FedEx		- ande	Tracki	ng #545	9	401	9 3	382	0	~		VOA Zero H		Y N
Refinquished by : (Signature)	Da	te: 26/2023	2 Time	30	ved by: (Signa					Trip Blank R	HCL, TBR	/ MeoH	RAD Screen	on Correct/Che o <0.5 mR/hr:	Y_N
Relinquished by : (Signature)	Da	te:	Time	: Receiv	ved by: (Signa	ature)				Temp: NSAGO	°C Bottles R	eceived:	If preservatio	on required by Log	in: Date/Time
Relinquished by : (Signature)	Da	ite:	Time	: Receiv	Monas	/: (Signat	ure)	tik	2	Date:	Time:	0900	Hold:		Condition: NCF / OK

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Pace Analytical® ANALYTICAL REPORT February 01, 2022

# Altamira - Angleton, TX

Sample Delivery Group:
Samples Received:
Project Number:
Description:
Site:
Report To:

L1455262 01/27/2022 NVONM2103 PHASE 001 Novo Culebra Bluff CULEBRA BLUFF Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515

Ср Тс Ss Cn Ϋ́r Śr Qc GI A Sc

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

# **Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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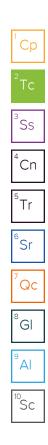
SDG: L1455262

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# SAMPLE SUMMARY

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SB-13(0-1') L1455262-01 Solid			Collected by BH/OG	Collected date/time 01/26/22 08:41	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1.01	01/27/22 22:30	01/28/22 03:28	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	33.5	01/26/22 08:41	01/28/22 03:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809491	1.34	01/26/22 08:41	01/28/22 04:48	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 16:34	TJD	Mt. Juliet, TN
			Collected by BH/OG	Collected date/time 01/26/22 08:44	Received da 01/27/22 09:	
SB-13(1-2') L1455262-02 Solid		D.1				
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 03:56	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	26.8	01/26/22 08:44	01/28/22 03:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809491	1.07	01/26/22 08:44	01/28/22 05:07	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 17:28	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-12(0-1') L1455262-05 Solid			BH/OG	01/26/22 08:59	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	10	01/27/22 22:30	01/28/22 04:06	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25.8	01/26/22 08:59	01/28/22 04:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809491	1.03	01/26/22 08:59	01/28/22 05:26	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 17:41	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-15(0-1') L1455262-06 Solid			BH/OG	01/26/22 09:14	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 04:15	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 09:14	01/28/22 04:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809491	1	01/26/22 09:14	01/28/22 05:45	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 16:47	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-15(1-2') L1455262-07 Solid			BH/OG	01/26/22 09:17	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 04:25	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 09:17	01/28/22 04:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809491	1	01/26/22 09:17	01/28/22 06:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 17:01	TJD	Mt. Juliet, TN

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SB-16(0-1') L1455262-08 Solid			Collected by BH/OG	Collected date/time 01/26/22 09:27	Received date/time 01/27/22 09:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1809423	1.03	01/27/22 22:30	01/28/22 04:34	LBR	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 09:27	01/28/22 05:21	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 09:27	01/27/22 23:53	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 18:22	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
SB-14(0-1') L1455262-09 Solid			BH/OG	01/26/22 09:35	01/27/22 09:	00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1809423	1.05	01/27/22 22:30	01/28/22 04:44	LBR	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 09:35	01/28/22 05:44	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 09:35	01/28/22 00:13	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810264	1	01/31/22 08:11	01/31/22 17:14	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
SB-19(0-1') L1455262-10 Solid			BH/OG	01/26/22 09:56	01/27/22 09:	00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 04:53	LBR	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 09:56	01/28/22 06:07	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 09:56	01/28/22 00:33	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 15:02	TJD	Mt. Juliet, TN	
SR 20/0 11 1455262 11 Salid			Collected by BH/OG	Collected date/time 01/26/22 10:05	Received da 01/27/22 09:		
SB-20(0-1') L1455262-11 Solid	Detek	Dilution					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 05:03	LBR	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 10:05	01/28/22 06:31	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 10:05	01/28/22 00:52	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 12:39	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time			
SB-20(1-2') L1455262-12 Solid			BH/OG	01/26/22 10:08	01/27/22 09:	00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1809215	1	01/28/22 11:14	01/28/22 11:29	KDW	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1809423	1.04	01/27/22 22:30	01/28/22 05:12	LBR	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 10:08	01/28/22 06:54	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 10:08	01/28/22 01:12	JAH	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 12:52	TJD	Mt. Juliet, TN	

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			Collected by BH/OG	Collected date/time 01/26/22 10:22	Received da 01/27/22 09:	
SB-17(0-1') L1455262-14 Solid			BH/00	01/20/22 10.22	01/2//22 09.	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1.03	01/27/22 22:30	01/28/22 05:50	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	26.3	01/26/22 10:22	01/28/22 07:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1.05	01/26/22 10:22	01/28/22 01:31	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 13:05	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-17(1-2') L1455262-15 Solid			BH/OG	01/26/22 10:25	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1.02	01/27/22 22:30	01/28/22 06:00	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25.3	01/26/22 10:25	01/28/22 07:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1.01	01/26/22 10:25	01/28/22 01:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 13:18	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-21(0-1') L1455262-17 Solid			BH/OG	01/26/22 10:44	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 06:09	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25.5	01/26/22 10:44	01/28/22 08:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1.02	01/26/22 10:44	01/28/22 02:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 13:31	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-21(1-2') L1455262-18 Solid			BH/OG	01/26/22 10:48	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1.03	01/27/22 22:30	01/28/22 06:19	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 10:48	01/28/22 08:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 10:48	01/28/22 02:30	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 15:28	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-18(0-1') L1455262-19 Solid			BH/OG	01/26/22 11:04	01/27/22 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1809423	1	01/27/22 22:30	01/28/22 06:28	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1809503	25	01/26/22 11:04	01/28/22 08:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1809492	1	01/26/22 11:04	01/28/22 02:49	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1810265	1	01/31/22 08:13	01/31/22 16:46	TJD	Mt. Juliet, TN

PROJECT: NVONM2103 PHASE 001 SDG: L1455262

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		Collected by	Collected date/time	Received dat	te/time
		BH/OG	01/26/22 11:07	01/27/22 09:	00
Batch	Dilution	Preparation	Analysis	Analyst	Location
		date/time	date/time		
WG1809216	1	01/28/22 11:36	01/28/22 11:55	KDW	Mt. Juliet, TN
WG1809423	1	01/27/22 22:30	01/28/22 06:38	LBR	Mt. Juliet, TN
WG1809503	26.8	01/26/22 11:07	01/28/22 09:14	DWR	Mt. Juliet, TN
WG1809492	1.07	01/26/22 11:07	01/28/22 03:09	JAH	Mt. Juliet, TN
WG1810265	1	01/31/22 08:13	01/31/22 16:59	TJD	Mt. Juliet, TN
	WG1809216 WG1809423 WG1809503 WG1809492	WG1809216         1           WG1809423         1           WG1809503         26.8           WG1809492         1.07	BH/OG           Batch         Dilution         Preparation date/time           WG1809216         1         01/28/22 11:36           WG1809423         1         01/27/22 22:30           WG1809503         26.8         01/26/22 11:07           WG1809492         1.07         01/26/22 11:07	BH/OG         01/26/22 11:07           Batch         Dilution         Preparation date/time         Analysis           WG1809216         1         01/28/22 11:36         01/28/22 11:55           WG1809423         1         01/27/22 22:30         01/28/22 06:38           WG1809503         26.8         01/26/22 11:07         01/28/22 09:14           WG1809492         1.07         01/26/22 11:07         01/28/22 03:09	BH/OG         01/26/22 11:07         01/27/22 09:           Batch         Dilution         Preparation date/time         Analysis         Analysis           WG1809216         1         01/28/22 11:36         01/28/22 11:55         KDW           WG1809423         1         01/27/22 22:30         01/28/22 06:38         LBR           WG1809503         26.8         01/26/22 11:07         01/28/22 09:14         DWR           WG1809492         1.07         01/26/22 11:07         01/28/22 03:09         JAH



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Released to Imaging: 21/2022 8:11:41 AM Altamira - Angleton, TX

PROJECT: NVONM2103 PHASE 001

SDG: L1455262 DATE/TIME:

02/01/22 13:18

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# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

h

Mark W. Beasley Project Manager

SDG: L1455262

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DATE/TIME: 02/01/22 13:18

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This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - Samples associated with the MS/MSD clearly identified.
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte
  - for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley Project Manager

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/01/2022 13:18					
Pro	ject N	lame: Novo Culebra Bluff	Laboratory Job Number: L1455262-01, 02, 05, 06, 07 and 20	, 08, 09	9, 10, <sup>,</sup>	11, 12, 14	1, 15, 17	7, 18, 19
Rev	viewe	Name: Mark W. Beasley	Prep Batch Number(s): WG1809423, WG1809215, WG WG1809492, WG1809503, WG1810264 and WG181020		6, WG	180949	1,	
#1	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	X				
		Were all departures from standard conditions describe	d in an exception report?			Х		
R2	OI	Sample and quality control (QC) identification						
		Are all field sample ID numbers cross-referenced to the	e laboratory ID numbers?	Х				
		Are all laboratory ID numbers cross-referenced to the o	corresponding QC data?	Х				
R3	OI	Test reports						
		Were all samples prepared and analyzed within holding	g times?	Х				
		Other than those results < MQL, were all other raw value	ues bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?		X				
		Were all analyte identifications checked by a peer or si	upervisor?	X			1	
		Were sample detection limits reported for all analytes r		X			1	
		Were all results for soil and sediment samples reported		X				
		Were % moisture (or solids) reported for all soil and sec	, ,	X				
		Were bulk soils/solids samples for volatile analysis extr	•	X	<u> </u>			
		If required for the project, are TICs reported?				X	<u> </u>	
R4	0	Surrogate recovery data		L			I	I
R4	0	Were surrogates added prior to extraction?			r –	T	r –	r –
			n the leberster (OC limits)	X		-	<b> </b>	
05		Were surrogate percent recoveries in all samples withi	n the laboratory QC limits?	X			I	I
R5	OI	Test reports/summary forms for blank samples			r –	1	1	
		Were appropriate type(s) of blanks analyzed?		X				
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analytica cleanup procedures?	al process, including preparation and, if applicable,	Х				
		Were blank concentrations < MQL?		X				
R6	OI	Laboratory control samples (LCS):						
		Were all COCs included in the LCS?		Х				
		Was each LCS taken through the entire analytical proc	edure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?		Х				
		Were LCS (and LCSD, if applicable) %Rs within the labo	pratory QC limits?	Х				
		Does the detectability check sample data document th used to calculate the SDLs?	e laboratory's capability to detect the COCs at the MDL	X				
		Was the LCSD RPD within QC limits?		X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data	a	·				
		Were the project/method specified analytes included in		X				
		Were MS/MSD analyzed at the appropriate frequency?		X			1	
		Were MS (and MSD, if applicable) %Rs within the labora			Х			1
		Were MS/MSD RPDs within laboratory QC limits?	,, ,,,,,,,	X				
R8	0	Analytical duplicate data						
	-	Were appropriate analytical duplicates analyzed for ea	ch matrix?	X	1	Т	Г	1
		Were analytical duplicates analyzed at the appropriate		X				
		Were RPDs or relative standard deviations within the la	• •	X				
R9	OI	Method quantitation limits (MQLs):	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		I			
		Are the MQLs for each method analyte included in the	laboratory data package?	X	[	1	1	
		Do the MQLs correspond to the concentration of the lo	· · · ·	X				
		Are unadjusted MQLs and DCSs included in the labora		X				
R10	OI	Other problems/anomalies					1	
		Are all known problems/anomalies/special conditions r	noted in this LRC and ER?	X	1	T	1	
		Was applicable and available technology used to lowe	r the SDL to minimize the matrix interference effects on	x				
		the sample results? Is the laboratory NELAC-accredited under the Texas La	aboratory Accreditation Program for the analytes, matrices					
		and methods associated with this laboratory data pack	age?	X	<u> </u>		<u> </u>	
shou 2. O 3. N	ld be r = orga A = No	ntified by the letter "R" must be included in the laborato etained and made available upon request for the approp nic analyses; I = inorganic analyses (and general chemis ; applicable; ; reviewed;		Items io	dentifie	ed by th	e letter	"S"
			ort should be completed for an item if "NR" or "No" is chec	ked).				

PROJECT: NVONM2103 PHASE 001 SDG: L1455262 PAGE: 9 of 41

# Revised May 2010 23:34:57 PM Laboratory Review Checklist: Supporting Data

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/01/2022 13:18					
Proj	ect N	Jame: Novo Culebra Bluff	Laboratory Job Number: L1455262-01, 02, 05, 06, 07 and 20	7, 08, 0	9, 10, 1	1, 12, 14	4, 15, 1	7, 18, 1
Rev	iewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1809423, WG1809215, WG WG1809492, WG1809503, WG1810264 and WG18102		16, WG	180949	1,	
# <sup>1</sup>	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
51	OI	Initial calibration (ICAL)		•	•	•		
		Were response factors and/or relative response factors f	for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria me	t?	X				
		Was the number of standards recommended in the meth	nod used for all analytes?	X				
		Were all points generated between the lowest and high	est standard used to calculate the curve?	X	1			
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an ap	opropriate second source standard?	X				
52	OI	Initial and continuing calibration verification (ICCV and C	· ·					
		Was the CCV analyzed at the method-required frequence	· · · · · · · · · · · · · · · · · · ·	X		1	1	1
		Were percent differences for each analyte within the me	•	X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the	he inorganic CCB < MDL?	X				
53	0	Mass spectral tuning						-
	-	Was the appropriate compound for the method used for	tunina?	X	1	Г	1	T
		Were ion abundance data within the method-required Q	5	X				
S4	0	Internal standards (IS)		1	1		1	
<u> </u>	Ŭ	Were IS area counts and retention times within the meth	od-required QC limits?	X	T	1	1	1
S5	OI	Raw data (NELAC Section 5.5.10)		1		1	-	
		Were the raw data (for example, chromatograms, spectra	al data) reviewed by an analyst?	X	Т	Т	T	1
		Were data associated with manual integrations flagged of	· · · · · · · · · · · · · · · · · · ·	X				
S6	0	Dual column confirmation			1		1	
50	Ĭ	Did dual column confirmation results meet the method-re		T	1	X	T	1
S7	0	Tentatively identified compounds (TICs)		1	1	~	I	
57	l v	If TICs were requested, were the mass spectra and TIC of	data subject to appropriate checks?	T	1	X	1	1
S8	1	Interference Check Sample (ICS) results		1	1	~	I	
		Were percent recoveries within method QC limits?		1	T	X	1	1
S9	1	Serial dilutions, post digestion spikes, and method of sta	andard additions		1		1	
	<u> </u>	Were percent differences, recoveries, and the linearity w		T	1	X	1	1
S10	OI	Method detection limit (MDL) studies	while the de limits speened in the method.	1	1	~	I	
510		Was a MDL study performed for each reported analyte?		X	1	Т	1	T
		Is the MDL either adjusted or supported by the analysis	of DCSs2	X				
S11	OI	Proficiency test reports			1		I	
011		Was the laboratory's performance acceptable on the app	plicable proficiency tests or evaluation studies?	X	1	Т	1	T
S12	OI	Standards documentation			1	•	I	
512		Are all standards used in the analyses NIST-traceable or	obtained from other appropriate sources?	X	T	Т	1	T
S13	OI	Compound/analyte identification procedures	obtailed non-other appropriate sources.				I	
515		Are the procedures for compound/analyte identification	documented?	X	1	Г	T	1
S14	OI	Demonstration of analyst competency (DOC)	documented.		1		I	
514		Was DOC conducted consistent with NELAC Chapter 5?		X	1	Т	1	T
		Is documentation of the analyst's competency up-to-date		X				
S15	OI	Verification/validation documentation for methods (NELA				1		
515		Are all the methods used to generate the data document		X	1		1	
S16	OI	Laboratory standard operating procedures (SOPs)	and validated, where applicable:		I	<u> </u>	L	
510		Are laboratory SOPs current and on file for each method	performed	Тх	1	1	1	Г
shoul	d be r	Are laboratory SOP's current and on the for each method intified by the letter "R" must be included in the laboratory etained and made available upon request for the appropri inic analyses; 1 = inorganic analyses (and general chemist	, data package submitted in the TRRP-required report(s), iate retention period.		dentifie	d by th	l e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1455262

Labora	tory Name: Pace Analytical National	LRC Date: 02/01/2022 13:18
Project	Name: Novo Culebra Bluff	Laboratory Job Number: L1455262-01, 02, 05, 06, 07, 08, 09, 10, 11, 12, 14, 15, 17, 18, 19 and 20
Review	ver Name: Mark W. Beasley	Prep Batch Number(s): WG1809423, WG1809215, WG1809216, WG1809491, WG1809492, WG1809503, WG1810264 and WG1810265
ER # <sup>1</sup>	Description	
1	300.0 WG1809423 Chloride: Percent Rec	overy is outside of established control limits.
	dentified by the letter "R" must be included in the labor	atory data package submitted in the TRRP-required report(s). Items identified by the letter "S"

should be retained and made available upon request for the appropriate retention period.
O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
NA = Not applicable;
NR = Not reviewed;
ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

#### SAMPLE RESULTS - 01 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		 2
Total Solids	96.4		1	01/28/2022 11:29	<u>WG1809215</u>	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry by	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	18.7	J	9.64	20.0	21.0	1.01	01/28/2022 03:28	WG1809423	CII

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.774	0.100	3.57	33.5	01/28/2022 03:25	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 03:25	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000667	0.00100	0.00143	1.34	01/28/2022 04:48	WG1809491
Toluene	U		0.00186	0.00500	0.00714	1.34	01/28/2022 04:48	WG1809491
Ethylbenzene	U		0.00105	0.00250	0.00357	1.34	01/28/2022 04:48	WG1809491
Total Xylenes	U		0.00126	0.00650	0.00928	1.34	01/28/2022 04:48	WG1809491
(S) Toluene-d8	98.5				75.0-131		01/28/2022 04:48	WG1809491
(S) 4-Bromofluorobenzene	98.7				67.0-138		01/28/2022 04:48	WG1809491
(S) 1,2-Dichloroethane-d4	114				70.0-130		01/28/2022 04:48	WG1809491

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.00	4.15	1	01/31/2022 16:34	WG1810264
C28-C36 Motor Oil Range	7.97		0.284	4.00	4.15	1	01/31/2022 16:34	WG1810264
(S) o-Terphenyl	70.8				18.0-148		01/31/2022 16:34	WG1810264

SDG: L1455262

DATE/TIME: 02/01/22 13:18

## SAMPLE RESULTS - 02 L1455262

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		95.5		1	01/28/2022 11:29	WG1809215	Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry by I	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	24.5		9.63	20.0	20.9	1	01/28/2022 03:56	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.635	0.100	2.93	26.8	01/28/2022 03:48	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 03:48	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000545	0.00100	0.00117	1.07	01/28/2022 05:07	WG1809491
Toluene	U		0.00152	0.00500	0.00584	1.07	01/28/2022 05:07	WG1809491
Ethylbenzene	U		0.000861	0.00250	0.00293	1.07	01/28/2022 05:07	WG1809491
Total Xylenes	U		0.00103	0.00650	0.00760	1.07	01/28/2022 05:07	WG1809491
(S) Toluene-d8	97.9				75.0-131		01/28/2022 05:07	WG1809491
(S) 4-Bromofluorobenzene	101				67.0-138		01/28/2022 05:07	WG1809491
(S) 1,2-Dichloroethane-d4	114				70.0-130		01/28/2022 05:07	WG1809491

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.20	J	1.69	4.00	4.19	1	01/31/2022 17:28	WG1810264
C28-C36 Motor Oil Range	17.1		0.287	4.00	4.19	1	01/31/2022 17:28	WG1810264
(S) o-Terphenyl	71.6				18.0-148		01/31/2022 17:28	WG1810264

SDG: L1455262

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#### SAMPLE RESULTS - 05 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	—	Ср
Analyte	%			date / time		r	2
Total Solids	95.7		1	01/28/2022 11:29	WG1809215		Tc

#### Wet Chemistry by Method 300.0

Wet Chemistry by M	lethod 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	3840		96.2	20.0	209	10	01/28/2022 04:06	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	L
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.610	0.100	2.81	25.8	01/28/2022 04:12	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 04:12	WG1809503	7

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000524	0.00100	0.00112	1.03	01/28/2022 05:26	WG1809491
Toluene	U		0.00146	0.00500	0.00561	1.03	01/28/2022 05:26	WG1809491
Ethylbenzene	U		0.000827	0.00250	0.00281	1.03	01/28/2022 05:26	WG1809491
Total Xylenes	0.00135	J	0.000988	0.00650	0.00730	1.03	01/28/2022 05:26	WG1809491
(S) Toluene-d8	97.9				75.0-131		01/28/2022 05:26	WG1809491
(S) 4-Bromofluorobenzene	98.3				67.0-138		01/28/2022 05:26	WG1809491
(S) 1,2-Dichloroethane-d4	113				70.0-130		01/28/2022 05:26	WG1809491

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	16.4		1.68	4.00	4.18	1	01/31/2022 17:41	WG1810264
C28-C36 Motor Oil Range	32.6		0.286	4.00	4.18	1	01/31/2022 17:41	WG1810264
(S) o-Terphenyl	64.8				18.0-148		01/31/2022 17:41	WG1810264

#### SAMPLE RESULTS - 06 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср	
Analyte	%			date / time		2	i
Total Solids	95.6		1	01/28/2022 11:29	WG1809215	Tc	

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup>
Chloride	13.7	J	9.63	20.0	20.9	1	01/28/2022 04:15	WG1809423	— I`

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.593	0.100	2.73	25	01/28/2022 04:35	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 04:35	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00100	0.00109	1	01/28/2022 05:45	WG1809491
Toluene	U		0.00142	0.00500	0.00546	1	01/28/2022 05:45	WG1809491
Ethylbenzene	U		0.000805	0.00250	0.00273	1	01/28/2022 05:45	WG1809491
Total Xylenes	U		0.000962	0.00650	0.00710	1	01/28/2022 05:45	WG1809491
(S) Toluene-d8	96.3				75.0-131		01/28/2022 05:45	WG1809491
(S) 4-Bromofluorobenzene	102				67.0-138		01/28/2022 05:45	WG1809491
(S) 1,2-Dichloroethane-d4	117				70.0-130		01/28/2022 05:45	WG1809491

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.07	J	1.68	4.00	4.19	1	01/31/2022 16:47	WG1810264
C28-C36 Motor Oil Range	13.4		0.287	4.00	4.19	1	01/31/2022 16:47	WG1810264
(S) o-Terphenyl	76.7				18.0-148		01/31/2022 16:47	WG1810264

DATE/TIME: 02/01/22 13:18

#### SAMPLE RESULTS - 07 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution Ana	lysis	Batch				
Analyte	%		date	e / time					
Total Solids	95.8		1 01/2	8/2022 11:29	WG1809215				
Wet Chemistry b	by Method 300.0								
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
	12.9	J	9.60	20.0	20.9	1	01/28/2022 04:25	WG1809423	
Chloride	12.0	-							

#### Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	12.9	Ţ	9.60	20.0	20.9	1	01/28/2022 04:25	WG1809423	Ľ

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.593	0.100	2.73	25	01/28/2022 04:58	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 04:58	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00100	0.00109	1	01/28/2022 06:04	WG1809491
Toluene	U		0.00142	0.00500	0.00546	1	01/28/2022 06:04	WG1809491
Ethylbenzene	U		0.000805	0.00250	0.00273	1	01/28/2022 06:04	WG1809491
Total Xylenes	U		0.000962	0.00650	0.00710	1	01/28/2022 06:04	WG1809491
(S) Toluene-d8	98.1				75.0-131		01/28/2022 06:04	WG1809491
(S) 4-Bromofluorobenzene	99.2				67.0-138		01/28/2022 06:04	WG1809491
(S) 1,2-Dichloroethane-d4	115				70.0-130		01/28/2022 06:04	WG1809491

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.04	J	1.68	4.00	4.17	1	01/31/2022 17:01	WG1810264
C28-C36 Motor Oil Range	14.2		0.286	4.00	4.17	1	01/31/2022 17:01	WG1810264
(S) o-Terphenyl	70.2				18.0-148		01/31/2022 17:01	WG1810264

SDG: L1455262

DATE/TIME: 02/01/22 13:18

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#### SAMPLE RESULTS - 08 L1455262

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# Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.0		1	01/28/2022 11:29	WG1809215	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry by	/ Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	28.0		9.67	20.0	21.0	1.03	01/28/2022 04:34	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.565	0.100	2.60	25	01/28/2022 05:21	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 05:21	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000486	0.00100	0.00104	1	01/27/2022 23:53	WG1809492
Toluene	0.00137	J	0.00135	0.00500	0.00521	1	01/27/2022 23:53	WG1809492
Ethylbenzene	U		0.000767	0.00250	0.00260	1	01/27/2022 23:53	WG1809492
Total Xylenes	U		0.000916	0.00650	0.00677	1	01/27/2022 23:53	WG1809492
(S) Toluene-d8	111				75.0-131		01/27/2022 23:53	WG1809492
(S) 4-Bromofluorobenzene	93.6				67.0-138		01/27/2022 23:53	WG1809492
(S) 1,2-Dichloroethane-d4	89.4				70.0-130		01/27/2022 23:53	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.91	J	1.64	4.00	4.08	1	01/31/2022 18:22	WG1810264
C28-C36 Motor Oil Range	18.2		0.280	4.00	4.08	1	01/31/2022 18:22	WG1810264
(S) o-Terphenyl	76.3				18.0-148		01/31/2022 18:22	WG1810264

SDG: L1455262

DATE/TIME: 02/01/22 13:18 PAGE: 17 of 41

#### SAMPLE RESULTS - 09 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.8		1	01/28/2022 11:29	WG1809215	Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry by	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	11.6	Ţ	9.98	20.0	21.7	1.05	01/28/2022 04:44	WG1809423	CII

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	-
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.579	0.100	2.67	25	01/28/2022 05:44	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 05:44	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00100	0.00107	1	01/28/2022 00:13	WG1809492
Toluene	U		0.00139	0.00500	0.00534	1	01/28/2022 00:13	WG1809492
Ethylbenzene	U		0.000787	0.00250	0.00267	1	01/28/2022 00:13	WG1809492
Total Xylenes	U		0.000940	0.00650	0.00694	1	01/28/2022 00:13	WG1809492
(S) Toluene-d8	114				75.0-131		01/28/2022 00:13	WG1809492
(S) 4-Bromofluorobenzene	93.9				67.0-138		01/28/2022 00:13	WG1809492
(S) 1,2-Dichloroethane-d4	85.2				70.0-130		01/28/2022 00:13	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.68	J	1.66	4.00	4.13	1	01/31/2022 17:14	WG1810264
C28-C36 Motor Oil Range	11.1		0.283	4.00	4.13	1	01/31/2022 17:14	WG1810264
(S) o-Terphenyl	73.7				18.0-148		01/31/2022 17:14	WG1810264

SDG: L1455262

DATE/TIME: 02/01/22 13:18 PAGE: 18 of 41

## SAMPLE RESULTS - 10 L1455262

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# Total Solids by Method 2540 G-2011

	R	esult	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%	)			date / time		2
Total Solids	9	5.7		1	01/28/2022 11:29	WG1809215	ЪС

## Wet Chemistry by Method 300.0

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Wet Chemistry b	by Method 300.0								1
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	- I
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		Γ
Chloride	15.5	J	9.62	20.0	20.9	1	01/28/2022 04:53	WG1809423	
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# Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	_ ;
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.593	0.100	2.73	25	01/28/2022 06:07	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 06:07	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Patch
	Result (uly)	Qualifier	SDL (ury)		MOL (UIY)	Dilution	Allalysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000511	0.00100	0.00109	1	01/28/2022 00:33	WG1809492
Toluene	U		0.00142	0.00500	0.00547	1	01/28/2022 00:33	WG1809492
Ethylbenzene	U		0.000806	0.00250	0.00273	1	01/28/2022 00:33	WG1809492
Total Xylenes	U		0.000962	0.00650	0.00711	1	01/28/2022 00:33	WG1809492
(S) Toluene-d8	115				75.0-131		01/28/2022 00:33	WG1809492
(S) 4-Bromofluorobenzene	95.3				67.0-138		01/28/2022 00:33	WG1809492
(S) 1,2-Dichloroethane-d4	90.8				70.0-130		01/28/2022 00:33	WG1809492

# Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.87	J	1.68	4.00	4.18	1	01/31/2022 15:02	WG1810265
C28-C36 Motor Oil Range	19.7		0.286	4.00	4.18	1	01/31/2022 15:02	WG1810265
(S) o-Terphenyl	70.1				18.0-148		01/31/2022 15:02	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

#### SAMPLE RESULTS - 11 L1455262

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		95.6		1	01/28/2022 11:29	WG1809215	¯Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry by	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		$^{4}$ Cn
Chloride	U		9.62	20.0	20.9	1	01/28/2022 05:03	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.592	0.100	2.73	25	01/28/2022 06:31	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 06:31	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00100	0.00109	1	01/28/2022 00:52	WG1809492
Toluene	U		0.00142	0.00500	0.00546	1	01/28/2022 00:52	WG1809492
Ethylbenzene	U		0.000804	0.00250	0.00273	1	01/28/2022 00:52	WG1809492
Total Xylenes	U		0.000960	0.00650	0.00709	1	01/28/2022 00:52	WG1809492
(S) Toluene-d8	113				75.0-131		01/28/2022 00:52	WG1809492
(S) 4-Bromofluorobenzene	92.2				67.0-138		01/28/2022 00:52	WG1809492
(S) 1,2-Dichloroethane-d4	86.7				70.0-130		01/28/2022 00:52	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.18	1	01/31/2022 12:39	WG1810265
C28-C36 Motor Oil Range	32.4		0.286	4.00	4.18	1	01/31/2022 12:39	WG1810265
(S) o-Terphenyl	70.3				18.0-148		01/31/2022 12:39	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

#### SAMPLE RESULTS - 12 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.0		1	01/28/2022 11:29	WG1809215	ЪС

#### Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300.0								 
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	-
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
Chloride	10.1	J	9.97	20.0	21.7	1.04	01/28/2022 05:12	WG1809423	_
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## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.591	0.100	2.72	25	01/28/2022 06:54	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 06:54	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000509	0.00100	0.00109	1	01/28/2022 01:12	WG1809492
Toluene	U		0.00142	0.00500	0.00544	1	01/28/2022 01:12	WG1809492
Ethylbenzene	U		0.000803	0.00250	0.00272	1	01/28/2022 01:12	WG1809492
Total Xylenes	U		0.000958	0.00650	0.00708	1	01/28/2022 01:12	WG1809492
(S) Toluene-d8	110				75.0-131		01/28/2022 01:12	WG1809492
(S) 4-Bromofluorobenzene	90.6				67.0-138		01/28/2022 01:12	WG1809492
(S) 1,2-Dichloroethane-d4	87.6				70.0-130		01/28/2022 01:12	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.17	1	01/31/2022 12:52	WG1810265
C28-C36 Motor Oil Range	8.04		0.286	4.00	4.17	1	01/31/2022 12:52	WG1810265
(S) o-Terphenyl	65.8				18.0-148		01/31/2022 12:52	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

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#### SAMPLE RESULTS - 14 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.0		1	01/28/2022 11:55	<u>WG1809216</u>	Tc

#### Wet Chemistry by Method 300.0

	55.0		01/20	2022 11.55	101003210				10
Wet Chemistry b	by Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	15.8	Ţ	9.97	20.0	21.7	1.03	01/28/2022 05:50	WG1809423	CII
									5

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	- 1
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.629	0.100	2.90	26.3	01/28/2022 07:18	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	108				77.0-120		01/28/2022 07:18	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000540	0.00100	0.00116	1.05	01/28/2022 01:31	WG1809492
Toluene	U		0.00150	0.00500	0.00578	1.05	01/28/2022 01:31	WG1809492
Ethylbenzene	U		0.000852	0.00250	0.00290	1.05	01/28/2022 01:31	WG1809492
Total Xylenes	U		0.00102	0.00650	0.00752	1.05	01/28/2022 01:31	WG1809492
(S) Toluene-d8	114				75.0-131		01/28/2022 01:31	WG1809492
(S) 4-Bromofluorobenzene	97.5				67.0-138		01/28/2022 01:31	WG1809492
(S) 1,2-Dichloroethane-d4	85.8				70.0-130		01/28/2022 01:31	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.00	4.21	1	01/31/2022 13:05	WG1810265
C28-C36 Motor Oil Range	10.9		0.288	4.00	4.21	1	01/31/2022 13:05	WG1810265
(S) o-Terphenyl	72.4				18.0-148		01/31/2022 13:05	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

#### SAMPLE RESULTS - 15 L1455262

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## Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.0		1	01/28/2022 11:55	WG1809216	¯Тс

#### Wet Chemistry by Method 300.0

Wet Chemistry b	y Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	12.3	J	9.99	20.0	21.7	1.02	01/28/2022 06:00	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.619	0.100	2.85	25.3	01/28/2022 07:41	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 07:41	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000532	0.00100	0.00114	1.01	01/28/2022 01:51	WG1809492
Toluene	U		0.00148	0.00500	0.00570	1.01	01/28/2022 01:51	WG1809492
Ethylbenzene	U		0.000840	0.00250	0.00285	1.01	01/28/2022 01:51	WG1809492
Total Xylenes	U		0.00100	0.00650	0.00740	1.01	01/28/2022 01:51	WG1809492
(S) Toluene-d8	118				75.0-131		01/28/2022 01:51	WG1809492
(S) 4-Bromofluorobenzene	91.3				67.0-138		01/28/2022 01:51	WG1809492
(S) 1,2-Dichloroethane-d4	91.3				70.0-130		01/28/2022 01:51	WG1809492

#### Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.00	4.26	1	01/31/2022 13:18	WG1810265
C28-C36 Motor Oil Range	11.0		0.292	4.00	4.26	1	01/31/2022 13:18	WG1810265
(S) o-Terphenyl	65.3				18.0-148		01/31/2022 13:18	WG1810265

SDG: L1455262

#### SAMPLE RESULTS - 17 L1455262

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# Total Solids by Method 2540 G-2011

		Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solid	s	94.6		1	01/28/2022 11:55	WG1809216	ЪС

#### Wet Chemistry by Method 300.0

Result (dry)       Qualifier       SDL (dry)       Unadj. MQL       MQL (dry)       Dilution       Analysis       Batch         Analyte       mg/kg       mg/kg       mg/kg       mg/kg       date / time       4	Wet Chemistry b	by Method 300.0								3
			Qualifier		,	· • • •	Dilution	,	Batch	— L
	Analyte Chloride	mg/kg 14.9		mg/kg 9.73	mg/kg 20.0	mg/kg 21.1	1	date / time 01/28/2022 06:09	WG1809423	4

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.616	0.100	2.84	25.5	01/28/2022 08:04	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 08:04	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000530	0.00100	0.00114	1.02	01/28/2022 02:10	WG1809492
Toluene	U		0.00148	0.00500	0.00568	1.02	01/28/2022 02:10	WG1809492
Ethylbenzene	U		0.000837	0.00250	0.00284	1.02	01/28/2022 02:10	WG1809492
Total Xylenes	U		0.000999	0.00650	0.00738	1.02	01/28/2022 02:10	WG1809492
(S) Toluene-d8	113				75.0-131		01/28/2022 02:10	WG1809492
(S) 4-Bromofluorobenzene	92.8				67.0-138		01/28/2022 02:10	WG1809492
(S) 1,2-Dichloroethane-d4	86.6				70.0-130		01/28/2022 02:10	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	J	1.70	4.00	4.23	1	01/31/2022 13:31	WG1810265
C28-C36 Motor Oil Range	16.8		0.290	4.00	4.23	1	01/31/2022 13:31	WG1810265
(S) o-Terphenyl	70.9				18.0-148		01/31/2022 13:31	WG1810265

#### SAMPLE RESULTS - 18 L1455262

# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	95.1		1	01/28/2022 11:55	WG1809216	-	Тс

#### Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	16.4	J	9.96	20.0	21.7	1.03	01/28/2022 06:19	WG1809423	

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.599	0.100	2.76	25	01/28/2022 08:27	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 08:27	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000515	0.00100	0.00110	1	01/28/2022 02:30	WG1809492
Toluene	U		0.00143	0.00500	0.00552	1	01/28/2022 02:30	WG1809492
Ethylbenzene	U		0.000813	0.00250	0.00276	1	01/28/2022 02:30	WG1809492
Total Xylenes	U		0.000971	0.00650	0.00717	1	01/28/2022 02:30	WG1809492
(S) Toluene-d8	114				75.0-131		01/28/2022 02:30	WG1809492
(S) 4-Bromofluorobenzene	89.2				67.0-138		01/28/2022 02:30	WG1809492
(S) 1,2-Dichloroethane-d4	89.1				70.0-130		01/28/2022 02:30	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.00	4.21	1	01/31/2022 15:28	WG1810265
C28-C36 Motor Oil Range	13.2		0.288	4.00	4.21	1	01/31/2022 15:28	WG1810265
(S) o-Terphenyl	62.0				18.0-148		01/31/2022 15:28	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18 °Sc

#### SAMPLE RESULTS - 19 L1455262

# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	91.2		1	01/28/2022 11:55	WG1809216	Tc

#### Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	25.5		10.1	20.0	21.9	1	01/28/2022 06:28	WG1809423	`

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.647	0.100	2.98	25	01/28/2022 08:51	WG1809503
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 08:51	WG1809503

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000557	0.00100	0.00119	1	01/28/2022 02:49	WG1809492
Toluene	U		0.00155	0.00500	0.00596	1	01/28/2022 02:49	WG1809492
Ethylbenzene	U		0.000879	0.00250	0.00298	1	01/28/2022 02:49	WG1809492
Total Xylenes	U		0.00105	0.00650	0.00775	1	01/28/2022 02:49	WG1809492
(S) Toluene-d8	110				75.0-131		01/28/2022 02:49	WG1809492
(S) 4-Bromofluorobenzene	91.7				67.0-138		01/28/2022 02:49	WG1809492
(S) 1,2-Dichloroethane-d4	87.1				70.0-130		01/28/2022 02:49	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.03	J	1.77	4.00	4.39	1	01/31/2022 16:46	WG1810265
C28-C36 Motor Oil Range	15.1		0.300	4.00	4.39	1	01/31/2022 16:46	WG1810265
(S) o-Terphenyl	71.4				18.0-148		01/31/2022 16:46	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

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## SAMPLE RESULTS - 20 L1455262

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# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution Ar	alysis	Batch				
Analyte	%		da	te / time					
Total Solids	91.9		1 01	28/2022 11:55	WG1809216				
Wet Chemistry b	y Method 300.0								
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
Analyte			40.0	22.0	21.0	4	01/20/2022 00:20	WC1900422	
Chloride	12.8	Ţ	10.0	20.0	21.8	1	01/28/2022 06:38	WG1809423	

#### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		4
Chloride	12.8	Ţ	10.0	20.0	21.8	1	01/28/2022 06:38	WG1809423	Ľ

## Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.680	0.100	3.13	26.8	01/28/2022 09:14	WG1809503	
(S) a,a,a-Trifluorotoluene(FID)	107				77.0-120		01/28/2022 09:14	WG1809503	

# Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000584	0.00100	0.00125	1.07	01/28/2022 03:09	WG1809492
Toluene	U		0.00163	0.00500	0.00626	1.07	01/28/2022 03:09	WG1809492
Ethylbenzene	U		0.000922	0.00250	0.00313	1.07	01/28/2022 03:09	WG1809492
Total Xylenes	U		0.00110	0.00650	0.00814	1.07	01/28/2022 03:09	WG1809492
(S) Toluene-d8	113				75.0-131		01/28/2022 03:09	WG1809492
(S) 4-Bromofluorobenzene	89.7				67.0-138		01/28/2022 03:09	WG1809492
(S) 1,2-Dichloroethane-d4	90.8				70.0-130		01/28/2022 03:09	WG1809492

## Semi-Volatile Organic Compounds (GC) by Method 8015M

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.21	J	1.75	4.00	4.35	1	01/31/2022 16:59	WG1810265
C28-C36 Motor Oil Range	9.26		0.298	4.00	4.35	1	01/31/2022 16:59	WG1810265
(S) o-Terphenyl	65.5				18.0-148		01/31/2022 16:59	WG1810265

SDG: L1455262

DATE/TIME: 02/01/22 13:18

# Regering 60 00 :5/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

#### QUALITY CONTROL SUMMARY L1455262-01,02,05,06,07,08,09,10,11,12

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#### Method Blank (MB)

(MB) R3754839-1 0'	1/28/22 11.29				Ср
(	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.00100				

#### L1455262-02 Original Sample (OS) • Duplicate (DUP)

Original Result DUP Result Dilution DUP RPD DUP Qualifier DUP RPD Limits		Jinal Sample (OS) • Dup /22 11:29 • (DUP) R3754839-3 C	
Analyte % %	Analyte	Original Result DUP Result	

# Laboratory Control Sample (LCS)

(LCS) R3754839-2 01	1/28/22 11:29				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

DATE/TIME: 02/01/22 13:18

PAGE: 28 of 41

# Reg & gob 000:6/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

#### QUALITY CONTROL SUMMARY L1455262-14,15,17,18,19,20

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#### Method Blank (MB)

	Ср
MB RDL	2
Ж	Tc
	<sup>3</sup> Ss
9	%

#### L1455262-17 Original Sample (OS) • Duplicate (DUP)

Original Result DUP Result Dilution DUP RPD <u>DUP Qualifier</u> Limits

# Laboratory Control Sample (LCS)

(LCS) R3754840-2 C	01/28/22 11:55				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

DATE/TIME: 02/01/22 13:18

PAGE: 29 of 41

## Reg @ q & D 9 2 3/20/2022 3:34:57 PM

Wet Chemistry by Method 300.0

## QUALITY CONTROL SUMMARY L1455262-01,02,05,06,07,08,09,10,11,12,14,15,17,18,19,20

# Method Blank (MB)

					$ ^1$
(MB) R3754648-1	01/28/22 02:02				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	-
Chloride	U		9.20	20.0	
					3
					L

## L1455251-36 Original Sample (OS) • Duplicate (DUP)

L1455251-36 Origi	inal Sample	(OS) • Dur	plicate (	,DUP)			
(OS) L1455251-36 01/28/	22 02:50 • (DUF	P) R3754648-1	3 01/28/21	2 02:59			
	Original Result (dry)	t DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/kg	mg/kg		%		%	
Chloride	4740	4690	10	1.10		20	

## L1455262-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1455262-12 01/28/2	22 05:12 • (DUP)	R3754648-6	01/28/22	05:22		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	10.1	11.5	1	13.3	J	20

#### Laboratory Control Sample (LCS)

(LCS) R3754648-2 01/28	/22 02:11				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	199	99.7	90.0-110	

# L1455251-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-36 01/28/2	22 02:50 • (MS)	R3754648-4 (	01/28/22 03:09	• (MSD) R3754	4648-5 01/28/2	22 03:18						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	583	4740	5210	5350	79.9	104	10	80.0-120	V		2.65	20

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	Altamira - Angleton, T>	<	

PROJECT: NVONM2103 PHASE 001

SDG: L1455262

DATE/TIME: 02/01/22 13:18

PAGE: 30 of 41 <sup>10</sup>Sc

# Reg @ q & by OGD 5/20/2022 3:34:57 PM

Volatile Organic Compounds (GC) by Method 8015D/GRO

#### QUALITY CONTROL SUMMARY L1455262-01,02,05,06,07,08,09,10,11,12,14,15,17,18,19,20

# Method Blank (MB)

(MB) R3755223-2 01/28/	/22 01:56				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.543	2.50	
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120	

# Laboratory Control Sample (LCS)

(LCS) R3755223-1 01/28/	22 00:30				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.35	97.3	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			101	77.0-120	

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<sup>3</sup> Ss
<sup>4</sup> Cn
⁵Tr
<sup>6</sup> Sr
<sup>7</sup> Qc
°GI
<sup>9</sup> Al
<sup>10</sup> Sc

DATE/TIME: 02/01/22 13:18 PAGE: 31 of 41 Volatile Organic Compounds (GC/MS) by Method 8260B

#### QUALITY CONTROL SUMMARY L1455262-01,02,05,06,07

Ср

Τс

Ss

Cn

Τr

Sr

Qc

GI

ΆI

Sc

#### Method Blank (MB)

(MB) R3755032-3 01/27/2	22 23:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	97.1			67.0-138
(S) 1,2-Dichloroethane-d4	118			70.0-130

# Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3755032-1 01/27/2	22 22:00 • (LCS	D) R3755032	-2 01/27/22 22	::19						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.126	0.122	101	97.6	70.0-123			3.23	20
Ethylbenzene	0.125	0.119	0.112	95.2	89.6	74.0-126			6.06	20
Toluene	0.125	0.118	0.115	94.4	92.0	75.0-121			2.58	20
Xylenes, Total	0.375	0.353	0.334	94.1	89.1	72.0-127			5.53	20
(S) Toluene-d8				97.2	96.9	75.0-131				
(S) 4-Bromofluorobenzene				97.9	99.2	67.0-138				
(S) 1,2-Dichloroethane-d4				122	122	70.0-130				

SDG: L1455262

DATE/TIME: 02/01/22 13:18

PAGE: 32 of 41 Volatile Organic Compounds (GC/MS) by Method 8260B

#### QUALITY CONTROL SUMMARY L1455262-08,09,10,11,12,14,15,17,18,19,20

#### Method Blank (MB)

(MB) R3755039-2 01/27/2	22 23:25			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	115			75.0-131
(S) 4-Bromofluorobenzene	92.1			67.0-138
(S) 1,2-Dichloroethane-d4	78.3			70.0-130

## Laboratory Control Sample (LCS)

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	Calles Assessed				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.125	0.118	94.4	70.0-123	
Ethylbenzene	0.125	0.126	101	74.0-126	
Toluene	0.125	0.130	104	75.0-121	
Xylenes, Total	0.375	0.352	93.9	72.0-127	
(S) Toluene-d8			114	75.0-131	
(S) 4-Bromofluorobenzene			90.9	67.0-138	
(S) 1,2-Dichloroethane-d4			90.7	70.0-130	

# L1455050-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455050-03 01/28/2	22 04:08 • (MS)	R3755039-3	01/28/22 06:25	5 • (MSD) R375	5039-4 01/28/	/22 06:45						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.113	0.000968	0.0759	0.0966	66.6	84.9	1	10.0-149			23.9	37
Ethylbenzene	0.113	0.00366	0.0849	0.109	72.2	93.4	1	10.0-160			24.7	38
Toluene	0.113	0.00493	0.0774	0.109	64.4	92.2	1	10.0-156			33.6	38
Xylenes, Total	0.338	0.00819	0.248	0.304	70.9	87.6	1	10.0-160			20.4	38
(S) Toluene-d8					102	109		75.0-131				
(S) 4-Bromofluorobenzene					106	95.3		67.0-138				
(S) 1,2-Dichloroethane-d4					96.5	88.9		70.0-130				

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PAGE: 33 of 41 Semi-Volatile Organic Compounds (GC) by Method 8015M

# QUALITY CONTROL SUMMARY

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#### Method Blank (MB)

MB) R3755468-1 01/31/2	2 13:38				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	
C28-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	69.4			18.0-148	

#### Laboratory Control Sample (LCS)

(LCS) R3755468-2 01/3	1/22 13:52				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.3	76.6	50.0-150	
(S) o-Terphenyl			87.5	18.0-148	

#### L1455251-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-32 01/31/22	2 15:26 • (MS) R	3755468-3 01	/31/22 15:40 • (1	MSD) R375546	68-4 01/31/221	5:53						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	54.6	3.04	45.0	40.9	76.7	69.7	1	50.0-150			9.45	20
(S) o-Terphenyl					79.6	73.8		18.0-148				

DATE/TIME: 02/01/22 13:18 PAGE: 34 of 41 Semi-Volatile Organic Compounds (GC) by Method 8015M

#### QUALITY CONTROL SUMMARY L1455262-10,11,12,14,15,17,18,19,20

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#### Method Blank (MB)

(MB) R3755475-1 01/31/2	2 12:13				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	
C28-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	75.2			18.0-148	

#### Laboratory Control Sample (LCS)

(LCS) R3755475-2 01/31/	/22 12:26				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	43.4	86.8	50.0-150	
(S) o-Terphenyl			86.2	18.0-148	

#### L1455251-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1455251-18 01/31/22	14:23 • (MS) R3	3755475-3 01/3	31/22 15:41 • (M	SD) R3755475	5-4 01/31/22 15:	:54						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.7	2.66	43.8	45.1	81.0	85.1	1	50.0-150			3.04	20
(S) o-Terphenyl					86.5	88.0		18.0-148				

DATE/TIME: 02/01/22 13:18 PAGE: 35 of 41

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#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

#### Abbreviations and Definitions

RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resul reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Sample Summary (Ss)	
Sample Summary (Ss) Qualifier	Description

The sample concentration is too high to evaluate accurate spike recoveries.

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SDG: L1455262

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
ldaho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	Al30792	Tennessee <sup>14</sup>	2006
ouisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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eport to: ryan Haney			Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com				or an all			syr						50	2065 Lebanon Rd Mo ubmitting a sample via	this chain of custody
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58-13 (0-1-)	G	55	101'	1/26/22	841	2	X	X	X	V								01
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SB-13 (2-3-)	G	SS	23'	1/26/22	848	2												03
SB-13 (3-4).	6	SS	3-4-	1/20/22	851	2		24										04
SB-12 (0-1-)	6	SS	0-1	1 26/22	859	2	X	X	X	X								05
SB-15 (0-1')	G	SS	0-1'	1/26/22	914	2	X	X	X	X								06
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SB-19 (0-1-)	6	SS	0-1	1/26/2	956	2	X	X	X	X						1	Desident Of	5] [
Matrix: - Soil <b>AIR</b> - Air <b>F</b> - Filter <b>W</b> - Groundwater <b>B</b> - Bioassay <b>W</b> - WasteWater	Remarks:	Desiren	Samona	s on How	PGNDI N	u.				pH Flow		_ Temp _ Other		_	COC Sea COC Sig Bottles	nl Pres gned/Ac arriv	Receipt Ch sent/Intact curate: re intact: les used:	NP T
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58-20 (0-1-)	G	SS	0-1'	126/22	1005	2	X	X	X	X	HAR					11
58-20 (1-2-)	G	SS	1-2'	1/24/22	1008	2	X	X	X	X						12
58-20 (2-3-)	6	SS	2-3'	1/26/22	101	2		1								13
SB-17 (0-17)	G	SS	0-1	1 26/22	1022	2	X	X	X	X						
SB-17 (1-2-)	G	SS	1-2-	1/26/22	1025	2	X	X	X	X		_				15
58-17 (2-3-)	G	SS	2-3	1/26/22	1027	2	1			1	-	-				16
SB-21 (0-1')	6	SS	0-1-	12672	1044	2	X	X	X	X						17
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58-18		SS														
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Report to: Bryan Haney			Email To: bryan.haney@altamira- us.com;Orlando.Gonzalez@Altamira-us.com				and the second se			Syr				12065 Lebanon Rd Mo Submitting a sample via	MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody			
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HLO	RON	SRO	/826					Shipped Via: For Remarks	Sample # (lab o		
58-18 (0-1-)	G	SS	0-1'	1/26/22	1104	12	X	X	X	X						(9		
58-18 (1-7-)	G	SS	1-2'	Izuta	1107	2	X	X	X	X			有			20		
SB-18 (2-3-)	G	SS	2-3'	1/2/22	1111	2							1		1998 (n. 20 <sup>16</sup> )	21		
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		SS							1000			- 2						
S - Soil AIR - Air F - Filter W - Groundwater B - Bioassay /W - WasteWater	Remarks: Samples returned UPS FedEx	via	1	PLEJ UN	(35)(3)	5.001	ng 4	019	1	pH _ Flow_		Temp Other		COC Seal COC Sigr Bottles Correct Sufficie VOA Zero	ample Receipt Ch Present/Intact med/Accurate: arrive intact: bottles used: ent volume sent: If Applicab b Headspace:			
elinquished by: (Signature)	1	126/00	110	30	ved by: (Signa					Trip Blanl	Receive	HCL TBR	/ MeoH	RAD Scre	ation Correct/Che een <0.5 mR/hr: ation required by Log	ZY		
elinquished by : (Signature)	Da	ate:	Time	Recei	ved by: (Signa	ture)				Temp: BAA	2 3.5	8t.0=		in preserva	ation required by Log	in: Date/ Ime		
Relinquished by : (Signature)	Da	ate:	Time	: Becei	ved for lab by	: (Signat	ure)	in la	0	Date:	1-2-	Time:	900	Hold:	Les Martin	Condition NCF / O		

E



Received by OCD: 5/20/2022 3:34:57 PM

Pace Analytical<sup>®</sup> ANALYTICAL REPORT

# Altamira - Angleton, TX

Sample Delivery Group:
Samples Received:
Project Number:
Description:
Site:
Report To:

L1456920 01/27/2022 NVONM2103 PHASE 001 Novo Culebra Bluff CULEBRA BLUFF Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515

Тс Ss Cn Ϋ́r Śr Qc GI A Sc

Сp

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

# Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Released to Imaging: 9/27/2022 8:11:41 AM Altamira - Angleton, TX PROJECT: NVONM2103 PHASE 001 SDG: L1456920 DATE/TIME: 02/07/22 17:05

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Ср Ss Cn Ъ Sr Qc GI ΆI Sc

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PROJECT: NVONM2103 PHASE 001

SDG: L1456920

DATE/TIME: 02/07/22 17:05 PAGE: 2 of 26 Received by OCD: 5/20/2022 3:34:57 PM

# SAMPLE SUMMARY

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Ср

Tc

Ss

Cn

⁵Tr

Sr

Qc

GI

ΆI

<sup>10</sup>Sc

SB-2(3-4') L1456920-01 Solid			Collected by BH/OG	Collected date/time 01/25/22 11:21	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	5	02/04/22 09:00	02/04/22 17:16	LBR	Mt. Juliet, TN
SB-2(4-5') L1456920-02 Solid			Collected by BH/OG	Collected date/time 01/25/22 11:23	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	5	02/04/22 09:00	02/04/22 17:33	LBR	Mt. Juliet, TN
SB-3(2-3') L1456920-03 Solid			Collected by BH/OG	Collected date/time 01/25/22 13:37	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	1	02/04/22 09:00	02/04/22 18:41	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1812250	27.5	01/25/22 13:37	02/03/22 05:44	CAM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1812694	1	02/04/22 04:43	02/04/22 21:26	JDG	Mt. Juliet, TN
			Collected by BH/OG	Collected date/time 01/25/22 15:29	Received da 01/27/22 09:	
SB-9(2-2.5') L1456920-04 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	5	02/04/22 09:00	02/04/22 18:58	LBR	Mt. Juliet, TN
SB-11(2-3') L1456920-05 Solid			Collected by BH/OG	Collected date/time 01/25/22 16:36	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	5	02/04/22 09:00	02/04/22 19:48	LBR	Mt. Juliet, TN
SB-11(3-4') L1456920-06 Solid			Collected by BH/OG	Collected date/time 01/25/22 16:40	Received da 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1813032	5	02/04/22 09:00	02/04/22 20:05	LBR	Mt. Juliet, TN

PROJECT: NVONM2103 PHASE 001 SDG: L1456920 DATE/TIME: 02/07/22 17:05

:: 05 PAGE: 3 of 26

### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

h

Mark W. Beasley Project Manager

SDG: L1456920

G: 6920 DATE/TIME: 02/07/22 17:05

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This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - Samples associated with the MS/MSD clearly identified.
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte
  - for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley Project Manager

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/07/2022 17:05					
Pro	ject N	lame: Novo Culebra Bluff	Laboratory Job Number: L1456920-01, 02, 03, 04, 05	and O	6			
Rev	viewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1812250, WG1812658, WG1	1812694	4 and N	NG1813	3032	
# <sup>1</sup>	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER#
२१	OI	Chain-of-custody (C-O-C)		•		•		
		Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	X				1
		Were all departures from standard conditions described		1		X		
2	OI	Sample and quality control (QC) identification		<u> </u>		1	<u> </u>	
		Are all field sample ID numbers cross-referenced to the	laboratory ID numbers?	X		T	Т	T
		Are all laboratory ID numbers cross-referenced to the c	· · · · · · · · · · · · · · · · · · ·	X				
3	0	Test reports				1		_
		Were all samples prepared and analyzed within holding	times?	X	r	1	T	1
				X				-
		Other than those results < MQL, were all other raw valu	es bracketed by calibration standards?					
		Were calculations checked by a peer or supervisor?		X			-	_
		Were all analyte identifications checked by a peer or su	•	X				
		Were sample detection limits reported for all analytes n		X				
		Were all results for soil and sediment samples reported	, ,	X				
		Were % moisture (or solids) reported for all soil and sed	•	Х				
		Were bulk soils/solids samples for volatile analysis extra	acted with methanol per SW846 Method 5035?	Х				
		If required for the project, are TICs reported?				Х		
24	0	Surrogate recovery data						
		Were surrogates added prior to extraction?		X				
		Were surrogate percent recoveries in all samples withir	the laboratory QC limits?	X				
25	OI	Test reports/summary forms for blank samples				•		
-		Were appropriate type(s) of blanks analyzed?		X		1	T	T
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analytica	process including proparation and if applicable					
		cleanup procedures?	process, including preparation and, it applicable,	X				
		Were blank concentrations < MQL?		X				
76	OI	Laboratory control samples (LCS):				1		_
	0	Were all COCs included in the LCS?		X		1	1	T
		Was each LCS taken through the entire analytical proce	dure including prep and cleanup steps?	X				+
		Were LCSs analyzed at the required frequency?	dure, including prep and cleanup steps.	X			-	+
		Were LCSs analyzed at the required frequency: Were LCS (and LCSD, if applicable) %Rs within the labor	rator (OC limito?	X				-
		Does the detectability check sample data document the	· · ·					+
		used to calculate the SDLs?	aboratory's capability to detect the COCs at the MDL	X				
		Was the LCSD RPD within QC limits?		X				
<del>7</del> 7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					•	
()		Were the project/method specified analytes included in		X		T	Т	T
		Were MS/MSD analyzed at the appropriate frequency?		X				
					V			
		Were MS (and MSD, if applicable) %Rs within the labora	tory QC lifflits?		Х			-
20		Were MS/MSD RPDs within laboratory QC limits?		X			1	
8	OI	Analytical duplicate data		<u> </u>	•	1	-	-
		Were appropriate analytical duplicates analyzed for eac		X				_
		Were analytical duplicates analyzed at the appropriate	· · ·	X				
		Were RPDs or relative standard deviations within the la	boratory QC limits?	X				
29	OI	Method quantitation limits (MQLs):						
		Are the MQLs for each method analyte included in the I	aboratory data package?	X				
		Do the MQLs correspond to the concentration of the low	west non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laborat	ory data package?	Х				
210	OI	Other problems/anomalies						
		Are all known problems/anomalies/special conditions n	oted in this LRC and ER?	Х				
		Was applicable and available technology used to lower the sample results?	the SDL to minimize the matrix interference effects on	х				
		· · ·	boratory Accreditation Program for the analytes, matrices age?	x				
shou 2. O 3. N/ 4. NI	ld be r = orga A = No R = No	ntified by the letter "R" must be included in the laborator etained and made available upon request for the approp nic analyses; I = inorganic analyses (and general chemis t applicable; t reviewed;	y data package submitted in the TRRP-required report(s). riate retention period.		dentifie	ed by th	le lette	r "S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1456920 PAGE: 6 of 26

# Revised May 2010 Laboratory Review Checklist: Supporting Data

Labo	orato	ry Name: Pace Analytical National	LRC Date: 02/07/2022 17:05					
Proj	ect N	lame: Novo Culebra Bluff I	aboratory Job Number: L1456920-01, 02, 03, 04, 05_	5 and 0	6			
Revi	iewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1812250, WG1812658, WG	181269	4 and V	VG1813	032	
ŗ1	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER#
1	OI	Initial calibration (ICAL)					-	
		Were response factors and/or relative response factors for	or each analyte within QC limits?			Х		
		Were percent RSDs or correlation coefficient criteria meta	?	X				
		Was the number of standards recommended in the method	od used for all analytes?	Х				
		Were all points generated between the lowest and higher	st standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an ap	propriate second source standard?	X				
2	OI	Initial and continuing calibration verification (ICCV and CC	CV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency	?	X				
		Were percent differences for each analyte within the met		X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the	e inorganic CCB < MDL?	X				
3	0	Mass spectral tuning						
		Was the appropriate compound for the method used for t	tunina?	T		Х	I	1
		Were ion abundance data within the method-required QC	•			X		
4	0	Internal standards (IS)		1	1		1	
	<u> </u>	Were IS area counts and retention times within the metho	od-required QC limits?	X	1	T	L	<u> </u>
5	OI	Raw data (NELAC Section 5.5.10)			I	1	I	
5		Were the raw data (for example, chromatograms, spectral	I data) reviewed by an analyst?	X	1	1	<u>г</u>	r –
		Were data associated with manual integrations flagged o	· · · ·	X				
6	0	Dual column confirmation			1		1	
0	0	Did dual column confirmation results meet the method-re	quired QC2	T	1	X	1	<u> </u>
7	0			1	I		1	
/	0	Tentatively identified compounds (TICs)	ata subject te enprenriate abacks?	T	1	X	1	r –
0	1.	If TICs were requested, were the mass spectra and TIC da					L	
8		Interference Check Sample (ICS) results		T	1	V	r –	· · ·
~	r. –	Were percent recoveries within method QC limits?				Х	I	
9		Serial dilutions, post digestion spikes, and method of star		1	1		1	<u> </u>
40		Were percent differences, recoveries, and the linearity wi	itnin the QC limits specified in the method?	I	I	Х	1	
10	OI	Method detection limit (MDL) studies			1	1	1	-
		Was a MDL study performed for each reported analyte?	1200.0	X				
		Is the MDL either adjusted or supported by the analysis o	f DCSs?	Х		I		
11	OI	Proficiency test reports		1.14	-	1	-	r –
		Was the laboratory's performance acceptable on the app	licable proficiency tests or evaluation studies?	X				
12	OI	Standards documentation		T		1	r	r –
		Are all standards used in the analyses NIST-traceable or o	obtained from other appropriate sources?	X				
13	OI	Compound/analyte identification procedures		1	1	1		-
		Are the procedures for compound/analyte identification c	locumented?	Х				
14	OI	Demonstration of analyst competency (DOC)				1		
		Was DOC conducted consistent with NELAC Chapter 5?		X				
		Is documentation of the analyst's competency up-to-date		X				
15	OI	Verification/validation documentation for methods (NELA)	• •					-
_		Are all the methods used to generate the data document	ed, verified, and validated, where applicable?	Х				
16	OI	Laboratory standard operating procedures (SOPs)				-	r	
		Are laboratory SOPs current and on file for each method	performed	X				
houl 2. O = 8. NA	d be r = orga x = No 2 = No	entified by the letter "R" must be included in the laboratory of etained and made available upon request for the appropria unic analyses; I = inorganic analyses (and general chemistry t applicable; t reviewed; vection Report identification number (on Evention Report	ate retention period. y, when applicable);		dentifie	d by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1456920

Laborato	ory Name: Pace Analytical National	LRC Date: 02/07/2022 17:05
Project Name: Novo Culebra Bluff		Laboratory Job Number: L1456920-01, 02, 03, 04, 05 and 06
Reviewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1812250, WG1812658, WG1812694 and WG1813032
ER # <sup>1</sup>	Description	
1	300.0 WG1813032 Chloride: Percent Recover	ery is outside of established control limits.
	ntified by the letter "R" must be included in the laborato	ry data package submitted in the TRRP-required report(s). Items identified by the letter "S"

Should be retained and made available upon request for the appropriate retention period.
 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1456920

DATE/TIME: 02/07/22 17:05

# SAMPLE RESULTS - 01

### Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.7		1	02/04/2022 09:45	<u>WG1812658</u>	Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2040		50.7	20.0	110	5	02/04/2022 17:16	WG1813032



SDG: L1456920 DATE/TIME: 02/07/22 17:05

# SAMPLE RESULTS - 02

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### Total Solids by Method 2540 G-2011

	-						l'Cn
		Result	Qualifier	Dilution	Analysis	Batch	Cp
Analyte		%			date / time		2
Total Solids		90.8		1	02/04/2022 09:45	WG1812658	Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2290	V	50.7	20.0	110	5	02/04/2022 17:33	WG1813032



### SAMPLE RESULTS - 03 L1456920

⁵Tr

### Total Solids by Method 2540 G-2011

,						I'C	'n
	Result	Qualifier	Dilution	Analysis	Batch		Ψ
Analyte	%			date / time		2	_
Total Solids	93.9		1	02/04/2022 09:45	WG1812658	ŤΤ	С

### Wet Chemistry by Method 300.0

Wet Chemistry by	Method 300.0								<sup>3</sup> Ss
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>4</sup> Cn
Chloride	205		9.79	20.0	21.3	1	02/04/2022 18:41	WG1813032	

### Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	 •
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		<sup>6</sup> Sr
TPH (GC/FID) Low Fraction	0.755	<u>B J</u>	0.670	0.100	3.09	27.5	02/03/2022 05:44	WG1812250	
(S) a,a,a-Trifluorotoluene(FID)	96.9				77.0-120		02/03/2022 05:44	WG1812250	7

### Semi-Volatile Organic Compounds (GC) by Method 8015M

	0.755	<u>B J</u>	0.670	0.100	3.09	27.5	02/03/2022 05:44	WG1812250	
(S) a,a,a-Trifluorotoluene(FID)	96.9				77.0-120		02/03/2022 05:44	WG1812250	<sup>7</sup> Qc
Semi-Volatile Organi	c Compounds	(GC) by N	lethod 80	15M					
	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch	— <sup>®</sup> GI
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time		9
C10-C28 Diesel Range	14.5		1.71	4.00	4.26	1	02/04/2022 21:26	WG1812694	A
C10-C28 Diesel Range C28-C36 Motor Oil Range	14.5 7.76		1.71 0.292	4.00 4.00	4.26 4.26	1	02/04/2022 21:26 02/04/2022 21:26	WG1812694 WG1812694	AI
5						1 1			

Released to	Imaging: 9/21/2022	8:11:41 AM
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DATE/TIME: 02/07/22 17:05

# SAMPLE RESULTS - 04

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### Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	88.1		1	02/04/2022 09:45	WG1812658	⁻Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	3350		52.2	20.0	114	5	02/04/2022 18:58	WG1813032



DATE/TIME: 02/07/22 17:05

### SAMPLE RESULTS - 05 L1456920

### Total Solids by Method 2540 G-2011

						 1 Cn
	Result	<u>Qualifier</u>	Dilution	Analysis	Batch	Cp
Analyte	%			date / time		2
Total Solids	85.5		1	02/04/2022 09:45	<u>WG1812658</u>	Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	3520		53.8	20.0	117	5	02/04/2022 19:48	WG1813032



SDG: L1456920

DATE/TIME: 02/07/22 17:05

PAGE: 13 of 26

# SAMPLE RESULTS - 06

### Total Solids by Method 2540 G-2011

						10	Ch
	Result	Qualifier	Dilution	Analysis	Batch		-h
Analyte	%			date / time		2	
Total Solids	85.7		1	02/04/2022 09:45	WG1812658	17	Τс

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2740		53.7	20.0	117	5	02/04/2022 20:05	WG1813032



SDG: L1456920

DAT 02/07 PAGE: 14 of 26

### Reg @ q & by DE B: 8/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

### QUALITY CONTROL SUMMARY L1456920-01,02,03,04,05,06

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### Method Blank (MB)

(MB) R3757191-1 02/	/04/22 09:45				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.000				
					<sup>3</sup> S

### L1456920-03 Original Sample (OS) • Duplicate (DUP)

L1456920-03 Orig	inal Sample	e (OS) • Du	plicate	(DUP)		
(OS) L1456920-03 02/04	/22 09:45 • (DU	JP) R3757191-3	3 02/04/2	2 09:45		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.9	94.1	1	0.157		10

### Laboratory Control Sample (LCS)

(LCS) R3757191-2 02	2/04/22 09:45				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

DATE/TIME: 02/07/22 17:05

### Reg @ q & by 200 B: 5/20/2022 3:34:57 PM

Wet Chemistry by Method 300.0

### QUALITY CONTROL SUMMARY L1456920-01,02,03,04,05,06

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### Method Blank (MB)

Method Blan				
(MB) R3757303-1	02/04/22 15:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

### L1456920-02 Original Sample (OS) • Duplicate (DUP)

L1456920-02 (	Original Sample	∋ (OS) • Dư	uplicate	(DUP)				
(OS) L1456920-02 (	02/04/22 17:33 • (DUF	P) R3757303-	3 02/04/2	22 17:50				
	Original Result (dry)	t DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	mg/kg	mg/kg		%		%		
Chloride	2290	2300	5	0.610		20		

### L1457674-09 Original Sample (OS) • Duplicate (DUP)

Original Result     DUP Result     DUP RPD     DUP Qualifier     DUP RPD Limits       Analyte     mg/kg     %     %	
Analyte molka molka % %	
Hidry Higreg 10 70 70	
Chloride 11.2 10.9 1 3.09 <u>J</u> 20	

### Laboratory Control Sample (LCS)

(LCS) R3757303-2 02/0-	4/22 16:08				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
•					

### L1456920-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1456920-02 02/04	(OS) L1456920-02 02/04/22 17:33 • (MS) R3757303-4 02/04/22 18:07 • (MSD) R3757303-5 02/04/22 18:24											
	Spike Amount Original Result MS Result (dry) MSD Result MS Rec. MSD Rec. Dilution Rec. Limits <u>MS Qualifier</u> MSD Qualifier RPD RPD Limits (dry) (dry)											
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	551	2290	2970	2790	123	90.4	5	80.0-120	V		6.26	20

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PROJECT: NVONM2103 PHASE 001

SDG: L1456920

DATE/TIME: 02/07/22 17:05

PAGE: 16 of 26 Volatile Organic Compounds (GC) by Method 8015D/GRO

# QUALITY CONTROL SUMMARY

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### Method Blank (MB)

	/			
(MB) R3756908-2 02/02	/22 22:01			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.938	J	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120

### Laboratory Control Sample (LCS)

(LCS) R3756908-1 02/02	(LCS) R3756908-1 02/02/22 19:14										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
TPH (GC/FID) Low Fraction	5.50	4.61	83.8	72.0-127							
(S) a.a.a-Trifluorotoluene(FID)			98.2	77.0-120							

### L1456856-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1456856-01 02/02	/22 23:20 • (MS	) R3756908-3	02/03/22 07:19	9 • (MSD) R375	56908-4 02/03	3/22 07:42						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
TPH (GC/FID) Low Fraction	106	0.851	79.6	86.0	57.6	62.2	25	10.0-151			7.64	28
(S) a,a,a-Trifluorotoluene(FID)					99.6	99.4		77.0-120				

DATE/TIME: 02/07/22 17:05 PAGE: 17 of 26 Semi-Volatile Organic Compounds (GC) by Method 8015M

# QUALITY CONTROL SUMMARY

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### Method Blank (MB)

(MB) R3757199-1 02/04/2	22 20:34				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	-
C10-C28 Diesel Range	U		1.61	4.00	Ľ
C28-C36 Motor Oil Range	U		0.274	4.00	3
(S) o-Terphenyl	64.7			18.0-148	L

### Laboratory Control Sample (LCS)

(LCS) R3757199-2 02/04	4/22 20:47				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.5	81.0	50.0-150	
(S) o-Terphenyl			91.4	18.0-148	

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### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resu reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detec or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

SDG: L1456920

# Received by OCD: 5/20/2022 3:34:57 PM CCREDITATIONS & LOCATIONS

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
lorida	E87487	North Carolina <sup>1</sup>	DW21704
ieorgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio–VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
entucky <sup>16</sup>	KY90010	South Carolina	84004002
Centucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee <sup>14</sup>	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
laryland	324	Utah	TN000032021-11
lassachusetts	M-TN003	Vermont	VT2006
lichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
Aississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
lontana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1456920 DATE/TIME: 02/07/22 17:05

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Report to: Bryan Haney		<ul> <li>A state of the state of the state of the state</li> </ul>	: bryan.haney@alta Orlando.Gonzalez@		rom				F			MT JUL 12065 Lebanon Rd Mount	Juliet, 174 37122	
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Phone: 361-658-3126	Client Project # NVONM2103 F	PHASE 001	Lab Project # ALTAMIRAA	TX-NOVO		oPres		ml/Syr	40mlAmb/MeOH10ml/Syr			SDG * 115	5251	
Collected by (print):	Site/Facility ID #	BWIF	P.O. #			zCIr-No	Pres	eOH10	mb/M			Table # // /	the second s	1
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Sample ID	Comp/Grab M	atrix * Depth	Date	Time	Cntrs	CHLORIDE-	DRONM	GRO 4	v8260			Shipbed Via: Fee Remarks	Sample # (lab only)	
SB-2 (0-1')	6	ss 0-1	1/25/22	1111	2	X	X	X	X				-06	
SB-2 (2-3') SB-2 (3-4')	6	ss 2-3 ss 3-4	1125/22	1119	22	X	X	X	X				-07	
SB2 (4.5)	6	ss 45		1123	2	10000							-04	-0
58-2 (6-7')	G	ss 6-7	12522	1129	2	and the second s	1.1.1						-10	
SB2 (8-9')	6	ss 8-9'	states and the second se	1133	2								-11	
SBZ (9-10') SBZ (14-15')	G	ss 9-10 ss 14-15		1135	22								-+7	
		SS				1200							1.70	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: DECA	ss GL SAMPLA	S PENDING	Awaysis					pH Flow	Temp Other	COC But	Sample Receipt Che Seal Present/Intact: Signed/Accurate: tlea arrive intact: rect botles used:		
DW - Drinking Water OT - Other	Samples returned via: UPSVedEx	Courier	Track	ing # 54	89	401	9	382	0		Sui	ficient volume sent: <u>If Applicabl</u> Sero Headspace:	1X N	
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Altamira - Angleton, TX

4001 Technology Drive, Ste 120

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one: 361-658-3126	Client Project		001	Lab Proj		X-NOVO		loPres		Oml/S	40mlAmb/MeOH10ml/Syr			SDG#145	5251	
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nediately ked on Ice N Y		y 5 Day 10 Da		Dat	te Result:	s Needed	No. of	CHLORIDE-300 4ozClr-NoPres	DRONM 4ozCir-NoPres	GRO 40miAmb/MeOH10ml/Syi	V8260BTEX 4			PM: 134 - Mark PB. 200	W. Beasley	
Sample ID	Comp/Grab	Matrix *	Depth	D	ate	Time	Cntrs	СНГО	DRON	GRO 4	V8260			Shipped Via: Fe Remarks	dEX Ground Sample # (lab only)	
18-3 (0-1)	G	SS	0-1	1/251	22	1330	2	X	X	X	X			all an arriver	-14	
8-3. (1-2)	G	SS	1-2'	1/25	12	1333	2	X	X	X	X		Constant in	Section 201	19-	1
18-3 (2-3)	6	SS	2-3'	125	122	1337	2	In the second					The second		1-6	
18-3 (3-4-)	G	55	3-4'	125	22	1342	2							Larra and the	17	1
584 6-17	G	SS	0-1	1125	n	1410	2	X	X	X	X				-4	No. of Street, or Stre
58-4 (1-7-)	6	SS	1-2"	1/25	ha	1415	12	X	X	X	X			No. Contraction	-19	
58-6 (0-1)	G	SS	0-1'	125	hz	1426	2	X	X	X	X			-	-20	
SB-6 (1-2)	G	SS	1-2-	1/25	22	1432	2	X	X	X	X		Marco Tak	a solution	2221	t
58-8 (0-1-)	G	SS	0-1	12	sha	1445	2	X	X	X	X				232	1
	State of	SS	- 10- 13 F.		1.214	1		E.C.	and and	1	10.00				Subsection .	
Matrix: - Soil AIR - Air F - Filter V - Groundwater B - Bioassay N - WasteWater	Remarks: DE	Eptile S	DYDATES	ON	Halp	YEVE	ANK				pH Flow	Temp Other	CCC Seal P CCC Signed Bottles ar	ble Receipt Ch resent/Intact: /Accurate: rive intact: ttles used:		
V - Drinking Water - Other	Samples returned UPSFedEx				Trackin	8# 54	89	40	19 -	382	0		VOA Zero H		CY_N	
linguished by (Signature)	Da	126/201	12 Ilo	102001-	Receiv	ed by: (Signa	ture)				Trip Blan	Received. (res) No HCL/Mean TBR		on Correct/Cho <0.5 mF/hr:	Exed: ZY _N	
linquished by : (Signature)	Da	ite:	Time		Receiv	ed by: (Signa	ture)			100	remp: NSAL	*C Botties Received	If preservatio	in required by Log	tin: Date/Time	
linquished by : (Signature)	Da	ite:	Time		Receiv	ed for lab by		JIST	m	2	Date 1 27	Time: 0900	Hold:		NCF 7 DE	

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Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515 Page 271 of 377\_

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Chain of Custody

Analysis / Container / Preservative

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Altamira - Angleton, 4001 Technology Drive, Ste 12 Angleton, TX 77515		Bryan Haney 4001 Technology Driv Angleton, TX 77515				Pres Chk									CC.
Report to: Bryan Haney			and the second second second	yan.haney@altan ando.Gonzalez@A		om				5				12065 Lebanon Rd Mou Submitting a cample via	his chain of custody
Project Description:		ity/State ollected:	LOUNG	NIM	Please C					ml/S				constitutes acknowledge Pace Terms and Condition https://info.pacelabs.com terms.pdf	
Novo <u>Overtion Part O Release</u> (U) Phone: 361-658-3126	Client Project #		Sec. 1	Lab Project # ALTAMIRAAT			NoPres		Iml/Syr	40mlAmb/MeOH10ml/Syr				SDG # 440	5251
Collected by (print):	Site/Facility ID #	A	ſF	P.O. #			4o2Clr-No	oPres	IeOH10	Amb/N				Table # //	AMIRAATX
Collected by (signature) Collected by (signature) Immediately Packed on Ice N Y	Next Day	Five 1	Day	Quote # Date Result	s Needed	No.	300	DRONM 4ozClr-NoPres	40mlAmb/MeOH10ml/Syr					Template: T20 Prelogin: P900 PM_134 - Mart PB:	W. Beasley
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLORIDE-	DRON	GRO 4	V8260BTEX				Shipped Via: Fe Remarks	dEX Ground
SB-5 (0-17)	G	\$\$	0-1'	125/22	1457	2	X	X	X	X					247
58-5 (1-1.5?)	G	SS	1-1.5	112512	1505	2	X	X	X	X			(35)3 (25)3		251
SB-9 (0-12)	G	SS	0-1	1/25/22	1523	2	X	XX	X	X					25
20-7 2162	9	SS SS	1-6	112514	1526	2	X	X	1	1				1	24
SB-9 (2-2.5) SB-7 (0-1-)	G	SS	2-2.5	125 22	1558	12	V	V	R	V			100000		24 3
SB-7 (1-2-)	A	55	1-2'	1/25/22	1601	12	X	X	X	X					200
58-7 (2-2.5)	6	SS	2-25'	1/25/22	1613	2									31-
001610		55					1	and a	1000						
	Mar Mar	SS										and the second	Real Providence	and the	1 States
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: Dbb	rea sia	mad c	in Hold f	FUDING					pH Flow	Temp Other _		COC Seal 3 COC Sigted Bottles an	ple Receipt Cp resent/intact /Accurate: rive intact: ttles used:	
DW - Drinking Water OT - Other	Samples returned v UPSFedEx	L Courier	AVER THE REAL PROPERTY AND	Tracki	2. 0	490	2 9	1019	3	820		ANIO	Sufficient	volume sent: <u> if Applicab</u> eadspace: on Correct/Che	YN
Relinguished by (Signature)	Dat	26/202	2 II	30	ved by: (Sign		a la		in the second	2	eceived Yes HC TB *C Bottles	L/Meoh R	RAD Screen	40.5 mR/hrs	ZY_N
Relinquished by : (Signature)*	Dat		Time	necen	ice by tailin	atoret				Temp: NSA60	44.00	7.676			
Relinquished by : (Signature)	Dat	te:	Time	: Reco	ved for lab b	y: TSigna	atures	the	D	Date: 1/27/-	Time:	0900	Hold:		NCF OK

Company Name/Address:		A Barr	Billing Info	rmation:	N. MARCE	1	1	-	-	natusis / Co	ntainer / Preservativ	p	Chain	of Custody	Page 5 of 5
Altamira - Angleton, T 4001 Technology Drive, Ste 120 Angleton, TX 77515			4001 Teo	ran Haney 01 Technology Drive, Ste 120 gleton, TX 77515										Pal PEOPLE AN	CC"
Report to: Bryan Haney				oryan.haney@alta lando.Gonzalez@		com				۲۲				MT JUL	
Project Description: Novo Ovation Pad O Actesse (UUS	BRA BLUF	City/State Collected:	LOUING	NM	Please C PT (MT)				and a	ml/S			constitut Pace Ter https://A	tes acknowledgme ms and Condition relo pacelabs com	ent and acceptance of the
Phone: 361-658-3126	Client Project NVONM21		(f	Lab Project # ALTAMIRAA	a state		Pres		ml/Syr	eOH10			SDG I	11-	5251
Collected by (print):	Site/Facility ID	and the second second		P.O. #			4ozClr-NoPres	Pres	OTHO	mb/M			and the second second		S6920 MIRAATX
Collected by (signature):	Rush? (L Same Da	ab MUST Be y Five y 5 Da 10 D	Day	Quote # Date Result	ts Needed	No. of	CHLORIDE-300 4oz	DRONM 4ozCir-NoPres	40mlAmb/MeOH10ml/Sy	BTEX 40mlAmb/MeOH10ml/Syr			Temp Prelo	late: T201 gin: P900 34 - Mark	884 101
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HLOR	RONI	GRO 4	V8260BTEX			a second	ed Via: Fer Iemarks	Sample # (lab only)
58-10 (0-1')	G	55	0-1'	1/25/22	1612	12	X	X	X	X					31
5840 (1-2)	G	SS	1-2'	Insta	1615	Z	X	X	X	X		in the second			32
58-10 (2.3)	G	SS	2.3'	125/22	1619	2		S.M.M.	1/200			Call of the second s	State Sec.		33
58-10 (3-4)	6	SS	3-4'	1/25/12	1623	2	ALL DA			1.1.1				er Bard	30
SB-11 (0-1)	G	SS	0-1	1/25/22	1631	2	X	X	X	X				and the second	-35
58-11 (1-2-)	6	SS	1-2'	1/25/22	1633	2	X	X	X	X					36
58-11 (2-37)	G	SS	2-3	1/25/22	1636	2	1200	1.1					ST. L.		-27
58-11 (3-1)	6	SS	3-4	Instre	1690	Z	and the second	21	1						-34
		SS	States !	The Aller	1- and	120	10.16	Carl.		1			191422		
a baile to the state		SS	1 and		12 AVE			1.2						AT AN	No. Carlo
Matrix: 55 - Soil AIR - Air F - Filter 5W - Groundwater B - Bioassay	Remarks:	<u>ধ</u> োগে	SAMP	LEI CNJ HOI	LO PENI	and			and the second	рН	Temp	COC/SI	Sample Res mal Present igned/Accur	/Intact: ate:	
WW - WasteWater DW - Drinking Water					Constant State			2.264	100	Flow	Other	Correc	t bottles	used:	Er - N
OT - Other	Samples returned v UPSFedEx			Tracki	18 = 540	91	4010	1 7	cy2	0		Con Frank		relicable	
Refliquished by : (Signature)	Da		Time:	and the second se	red by: (Signat	ure)	101			rip Blank R	eceived: (res) No HCL/Me TBR	Ereşei RAD Sc	ero Headapa cvation Cos treed <0.5	rectiched	ixed: ZY _N
Relinquished by : (Signature)	Dat	te:	Time:		red by: (Signat	ure)			-	emp: VSA62	°C Bottles Receiv	ed If prese	ervation requir	red by Logi	n: Date/Time
Relinquished by : (Signature)	Dat	ie:	Time;	Receiv	ed for lab by:	(Sign at	Tre)	tuk	)	landa	Time:	Hold:			Condition NCF / OK

# L1455251 \*ALTAMIRAATX\* relog

Relog the following as R4 due 2/7:

L1455251-08 CHLORIDE-300, transfer TS

L1455251-09 CHLORIDE-300, transfer TS

to Imaging: 9/21/2022 8:11:41 AM

L1455251-16 CHLORIDE-300, GRO, DRONM, transfer TS

L1455251-27 CHLORIDE-300, transfer TS

L1455251-37 CHLORIDE-300, transfer TS

L1455251-38 CHLORIDE-300, transfer TS

\*From:\* Bryan Haney <Bryan.Haney@Altamira-us.com>

\*Sent:\* Wednesday, February 02, 2022 10:22 AM

\*To:\* Mark Beasley <Mark.Beasley@pacelabs.com>

\*Subject:\* RE: Pace Analytical National Level II Report for NVONM2103 PHASE 001 Novo Culebra Bluff L1455251 CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe. Mark,

I need to add the following analysis for this report:

SB-2 (3-4') - chlorides

SB-2 (4-5') - chlorides

Sb-3 (2-3') – chlorides and TPH

SB-9 (2-2.5') - chlorides

SB-11 (2-3') – chlorides

SB-11 (3-4') - chlorides

Once complete can you generate a revised invoice that includes all analysis for this one?

\*Bryan Haney, TX P.G\*

\*Senior Project Manager\* | 361.658.3126 | altamira-us.com

:

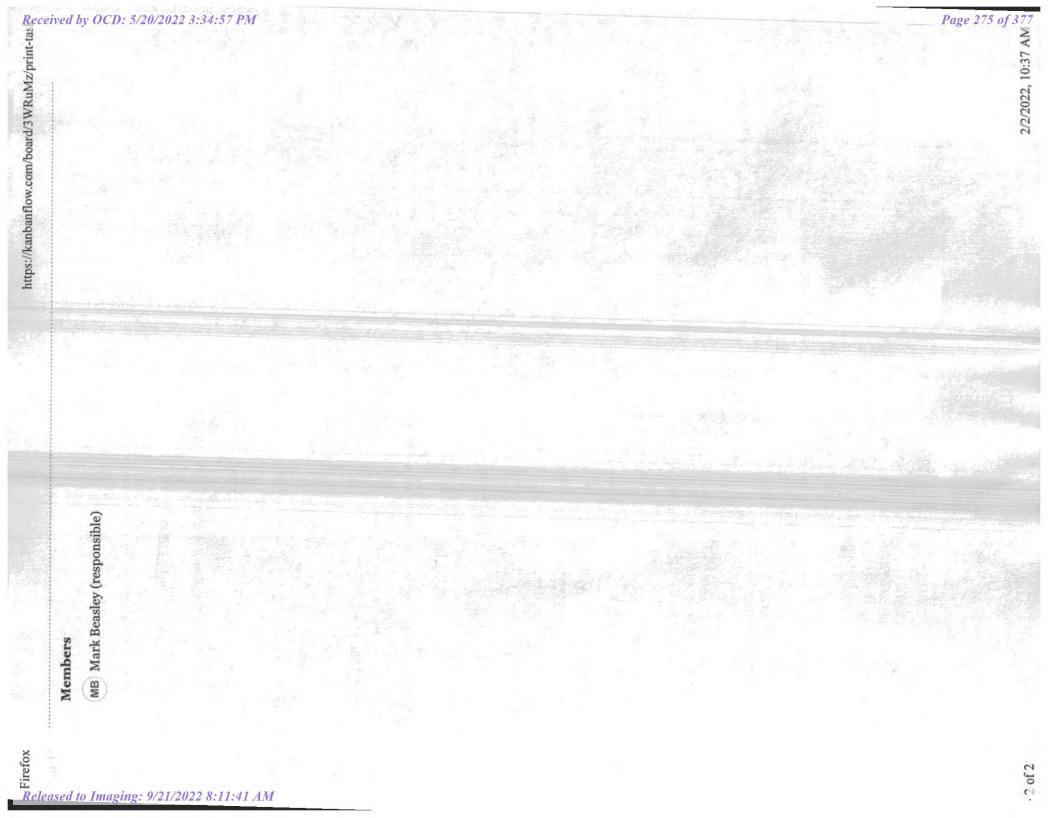
![A picture containing text

- Email body truncated due to large size. Full email body added as attachment.

Time estimate: oh

Time spent: oh

2/2/2022, 10:37 AM



Pace Analytical<sup>®</sup> ANALYTICAL REPORT

### Altamira - Angleton, TX

Sample Delivery Group:
Samples Received:
Project Number:
Description:
Site:
Report To:

L1457010 01/27/2022 NVONM2103 PHASE 001 Novo Culebra Bluff CULEBRA BLUFF Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515

Сp Тс Ss Cn Ϋ́r Śr Qc GI A Sc

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

## Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Released to Imaging: 3/271/2022 8:11:41 AM Altamira - Angleton, TX PROJECT: NVONM2103 PHASE 001 SDG: L1457010 DATE/TIME: 02/07/22 11:10

PAGE: 1 of 21

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Tr
<sup>6</sup> Sr
<sup>7</sup> Qc
<sup>8</sup> Gl
PAI
<sup>10</sup> Sc

Released to Imaging: 3/21/2022 8:11:41 AM Altamira - Angleton, TX PROJECT: NVONM2103 PHASE 001 SDG: L1457010 DATE/TIME: 02/07/22 11:10

C

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### SAMPLE SUMMARY

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Ср

Tc

Ss

Cn

⁵Tr

			Collected by	Collected date/time		
SB-13(3-4') L1457010-01 Solid			BH/OG	01/26/22 08:51	01/27/22 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1812410	1	02/03/22 07:42	02/03/22 07:53	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1812273	1	02/02/22 23:25	02/03/22 02:56	LBR	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-17(2-3') L1457010-02 Solid			BH/OG	01/26/22 10:27	01/27/22 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1812658	1	02/04/22 09:28	02/04/22 09:45	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1812747	1	02/03/22 21:05	02/04/22 00:45	LBR	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-18(2-3') L1457010-03 Solid			BH/OG	01/26/22 11:11	01/27/22 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1812410	1	02/03/22 07:42	02/03/22 07:53	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1812273	1	02/02/22 23:25	02/03/22 04:00	LBR	Mt. Juliet, TN

SDG: L1457010

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### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

h

Mark W. Beasley Project Manager

SDG: L1457010

PAGE: 4 of 21

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - Samples associated with the MS/MSD clearly identified.
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte
  - for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley Project Manager

		,	RC Date: 02/07/2022 11:10					
-	•		aboratory Job Number: L1457010-01, 02 and 03					
Rev	-	r Name: Mark W. Beasley P	Prep Batch Number(s): WG1812410, WG1812273, WG18	312747	and W	G18126	58	
ť	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR⁴	ER#
21	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditions of	sample acceptability upon receipt?	Х				
		Were all departures from standard conditions described in	n an exception report?			Х		
22	OI	Sample and quality control (QC) identification					-	
		Are all field sample ID numbers cross-referenced to the la	boratory ID numbers?	Х				
		Are all laboratory ID numbers cross-referenced to the corr	responding QC data?	Х				
3	OI	Test reports						
		Were all samples prepared and analyzed within holding tir	mes?	Х				
		Other than those results < MQL, were all other raw values	bracketed by calibration standards?		Х			1
		Were calculations checked by a peer or supervisor?		Х				
		Were all analyte identifications checked by a peer or supe	ervisor?	Х				
		Were sample detection limits reported for all analytes not	detected?	Х			1	
		Were all results for soil and sediment samples reported or		Х				1
		Were % moisture (or solids) reported for all soil and sedim	, ,	Х				1
		Were bulk soils/solids samples for volatile analysis extract	•	X			1	1
		If required for the project, are TICs reported?				Х		
24	0	Surrogate recovery data						
	-	Were surrogates added prior to extraction?			<b>I</b>	Х	1	1
		Were surrogate percent recoveries in all samples within th	ne laboratory QC limits?	X				
25	OI	Test reports/summary forms for blank samples					I	
	101	Were appropriate type(s) of blanks analyzed?		X	1		1	1
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analytical pr	rocess including preparation and if applicable				<u> </u>	
		cleanup procedures?		X				
		Were blank concentrations < MQL?		Х				
86	OI	Laboratory control samples (LCS):		-	-		-	1
		Were all COCs included in the LCS?		X				
		Was each LCS taken through the entire analytical procedu	ure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?		Х				
		Were LCS (and LCSD, if applicable) %Rs within the laborate		Х				
		Does the detectability check sample data document the la used to calculate the SDLs?	aboratory's capability to detect the COCs at the MDL	x				
		Was the LCSD RPD within QC limits?		Х				
87	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					-	
		Were the project/method specified analytes included in th	ne MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		Х				
		Were MS (and MSD, if applicable) %Rs within the laborator	ry QC limits?		Х			2
		Were MS/MSD RPDs within laboratory QC limits?		Х				
8	OI	Analytical duplicate data						
		Were appropriate analytical duplicates analyzed for each I	matrix?	Х				
		Were analytical duplicates analyzed at the appropriate free	quency?	X				
		Were RPDs or relative standard deviations within the labor	ratory QC limits?	Х				
89	OI	Method quantitation limits (MQLs):						
		Are the MQLs for each method analyte included in the lab	ooratory data package?	Х				
		Do the MQLs correspond to the concentration of the lowe	est non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory	y data package?	Х				
210	OI	Other problems/anomalies						
		Are all known problems/anomalies/special conditions note	ed in this LRC and ER?	Х				
		Was applicable and available technology used to lower th the sample results?	e SDL to minimize the matrix interference effects on	х				
		Is the laboratory NELAC-accredited under the Texas Labo		x				
hou 2. O 3. N/	ld be r = orga A = No	and methods associated with this laboratory data package ntified by the letter "R" must be included in the laboratory o etained and made available upon request for the appropriat nic analyses; I = inorganic analyses (and general chemistry t applicable; reviewed;	data package submitted in the TRRP-required report(s). te retention period.		l dentifie	l d by th	I e letter	"S"

PROJECT: NVONM2103 PHASE 001 SDG: L1457010 PAGE: 6 of 21

# Revised May 2010 Laboratory Review Checklist: Supporting Data

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/07/2022 11:10					
Proj	ject N	lame: Novo Culebra Bluff	Laboratory Job Number: L1457010-01, 02 and 03					
Rev	iewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1812410, WG1812273, WG1	812747	' and W	G18126	658	
¥1	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER#
51	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response factors f	for each analyte within QC limits?			Х		
		Were percent RSDs or correlation coefficient criteria met	t?	X				
		Was the number of standards recommended in the meth	hod used for all analytes?	X				
		Were all points generated between the lowest and high	est standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an ap	ppropriate second source standard?	X				1
2	OI	Initial and continuing calibration verification (ICCV and C	CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequenc	cv?	X				
		Were percent differences for each analyte within the me	•	X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the	he inorganic CCB < MDL?	X				
3	0	Mass spectral tuning		1			<u> </u>	
-	-	Was the appropriate compound for the method used for	r tuning?	T	1	X	T	1
		Were ion abundance data within the method-required Q	•			X		
4	0	Internal standards (IS)						I
		Were IS area counts and retention times within the meth	od-required OC limits?	X	1	Г	T	r –
5	OI	Raw data (NELAC Section 5.5.10)		<u> </u>	1		I	
5		Were the raw data (for example, chromatograms, spectra	al data) reviewed by an analyst?	X	1	T	T	<u> </u>
		· · · · · · · · · · · · · · · · · · ·	· · · · ·	$\uparrow$		X		
6	0	Were data associated with manual integrations flagged of Dual column confirmation		1	1		1	
0	0		required QC2	T	1	X	<u>т</u>	1
7		Did dual column confirmation results meet the method-re		<u> </u>	I		I	
7	0	Tentatively identified compounds (TICs)	data subject to environmisto chapter?	1	1		1	1
0	1.	If TICs were requested, were the mass spectra and TIC of later formers of the set of second s	data subject to appropriate checks?	<u> </u>	I	X	<u> </u>	
8		Interference Check Sample (ICS) results		T	1		r –	r
•	1.	Were percent recoveries within method QC limits?				Х		
9		Serial dilutions, post digestion spikes, and method of sta		-	1		<del>.</del>	<u> </u>
		Were percent differences, recoveries, and the linearity w	vithin the QC limits specified in the method?			Х		
10	OI	Method detection limit (MDL) studies			-	1		
		Was a MDL study performed for each reported analyte?		X			<b> </b>	
	_	Is the MDL either adjusted or supported by the analysis	of DCSs?	X				
11	OI	Proficiency test reports		-				
	-	Was the laboratory's performance acceptable on the app	plicable proficiency tests or evaluation studies?	X				
12	OI	Standards documentation						
	_	Are all standards used in the analyses NIST-traceable or	r obtained from other appropriate sources?	X				
13	OI	Compound/analyte identification procedures			-			
		Are the procedures for compound/analyte identification	documented?	Х				
14	OI	Demonstration of analyst competency (DOC)						
		Was DOC conducted consistent with NELAC Chapter 5?	,	Х				
		Is documentation of the analyst's competency up-to-date	e and on file?	X				
15	OI	Verification/validation documentation for methods (NELA	AC Chapter 5)					
		Are all the methods used to generate the data documen	nted, verified, and validated, where applicable?	X				
516	OI	Laboratory standard operating procedures (SOPs)						
		Are laboratory SOPs current and on file for each method	l performed	X			1	
shou 2. O 3. N/	ld be r = orga A = No	Intified by the letter "R" must be included in the laboratory etained and made available upon request for the appropri nic analyses; I = inorganic analyses (and general chemist t applicable; t reviewed;	, data package submitted in the TRRP-required report(s). iate retention period.	ltems i	identifie	ed by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: NVONM2103 PHASE 001 SDG: L1457010

Laborat	ory Name: Pace Analytical National	LRC Date: 02/07/2022 11:10						
Project	Name: Novo Culebra Bluff	Laboratory Job Number: L1457010-01, 02 and 03						
Reviewe	er Name: Mark W. Beasley	Prep Batch Number(s): WG1812410, WG1812273, WG1812747 and WG1812658						
ER # <sup>1</sup>	Description							
1	the instrument established by the initial cali	analyte concentration exceeds the upper limit of the calibration range of the						
2	300.0 WG1812747 Chloride: Percent Recovery is outside of established control limits.							
<ol> <li>Solo WG1812747 Childre. Percent Recovery is outside of established control limits.</li> <li>I. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</li> <li>O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</li> <li>NA = Not applicable:</li> </ol>								

NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1457010

DATE/TIME: 02/07/22 11:10

### SAMPLE RESULTS - 01 L1457010

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### Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.7		1	02/03/2022 07:53	WG1812410	Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	234		9.51	20.0	20.7	1	02/03/2022 02:56	WG1812273



DATE/TIME: 02/07/22 11:10

# SAMPLE RESULTS - 02

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### Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.1		1	02/04/2022 09:45	WG1812658	Tc

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	U		9.77	20.0	21.2	1	02/04/2022 00:45	WG1812747



DATE/TIME: 02/07/22 11:10

### SAMPLE RESULTS - 03 L1457010

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### Total Solids by Method 2540 G-2011

	F	esult	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%	, 5			date / time		2
Total Solids	g	2.8		1	02/03/2022 07:53	WG1812410	ЪС

### Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	12.5	J	9.91	20.0	21.5	1	02/03/2022 04:00	WG1812273



DATE/TIME: 02/07/22 11:10

### Regering Bhy DCD: 5/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

### QUALITY CONTROL SUMMARY L1457010-01,03

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### Method Blank (MB)

Method Blank (I	MB)				1
(MB) R3756645-1 02/	/03/22 07:53				СР
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Тс
Total Solids	0.000				

### L1457254-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1457254-15 02/0	)3/22 07:53 • (DL	JP) R3756645-	.3 02/03/2	2 07:53		
	Original Resul	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.7	80.7	1	4.89		10

### Laboratory Control Sample (LCS)

(LCS) R3756645-2 (	(LCS) R3756645-2 02/03/22 07:53						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	%	%	%	%			
Total Solids	50.0	50.0	100	85.0-115			

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Total Solids by Method 2540 G-2011

### QUALITY CONTROL SUMMARY L1457010-02

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### Method Blank (MB)

Method Blank	< (MB)				
(MB) R3757191-1 02	2/04/22 09:45				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Тс
Total Solids	0.000				
					<sup>3</sup> Ss

### L1456920-03 Original Sample (OS) • Duplicate (DUP)

L1456920-03 Origi	inal Sample	e (OS) • Di	iplicate	(DUP)		
(OS) L1456920-03 02/04	/22 09:45 • (DL	JP) R3757191-3	3 02/04/2	2 09:45		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.9	94.1	1	0.157		10

### Laboratory Control Sample (LCS)

(LCS) R3757191-2 02	(LCS) R3757191-2 02/04/22 09:45						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	%	%	%	%			
Total Solids	50.0	50.1	100	85.0-115			

DATE/TIME: 02/07/22 11:10

PAGE: 13 of 21

## Regering the 2027 35/20/2022 3:34:57 PM

Wet Chemistry by Method 300.0

#### QUALITY CONTROL SUMMARY L1457010-01,03

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# Method Blank (MB)

(MB) R3756686-1 02	MB) R3756686-1 02/03/22 00:33								
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/kg		mg/kg	mg/kg					
Chloride	U		9.20	20.0					

## L1456953-01 Original Sample (OS) • Duplicate (DUP)

# L1457066-06 Original Sample (OS) • Duplicate (DUP)

L1457066-06 Orig	inal Sample	(OS) • Du	plicate	(DUP)		
(OS) L1457066-06 02/03	3/22 05:35 • (DU	P) R3756686	-7 02/03/2	22 05:51		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	60.4	58.0	1	4.15		20

#### Laboratory Control Sample (LCS)

(LCS) R3756686-2 02/03	3/22 00:49				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	211	106	90.0-110	

# L1456953-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1456953-01 02/03/22 01:21 • (MS) R3756686-4 02/03/22 01:52 • (MSD) R3756686-5 02/03/22 02:08												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	877	2070	2970	2940	104	99.8	1	80.0-120	E	E	1.10	20

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Wet Chemistry by Method 300.0

## QUALITY CONTROL SUMMARY L1457010-02

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#### Method Blank (MB)

(MB) R3757047-1 02	IB) R3757047-1 02/03/22 22:10									
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/kg		mg/kg	mg/kg						
Chloride	U		9.20	20.0						

## L1457505-04 Original Sample (OS) • Duplicate (DUP)

L1457505-04 Orig	· ·	· · · · ·	1				
(OS) L1457505-04 02/0	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/kg	mg/kg		%		%	
Chloride	281	262	1	6.69		20	

# L1457505-14 Original Sample (OS) • Duplicate (DUP)

		/		2 03:36		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	629	609	1	3.25		20

#### Laboratory Control Sample (LCS)

(LCS) R3757047-2 02/0	3/22 22:19				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	

# L1457505-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1457505-14 02/04/22 03:27 • (MS) R3757047-5 02/04/22 03:46 • (MSD) R3757047-6 02/04/22 04:14												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	EOO	629	1200	1240	11/1	122	1	80.0-120	E	E.J5	3.61	20

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#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

#### Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
U	Not detected at the Sample Detection Limit.
Jnadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resul reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

SDG: L1457010 PAGE: 16 of 21

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee <sup>14</sup>	2006
ouisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
<b>/</b> innesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
42LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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Company Name/Address:	1.1. SP. 24		Billing Info	irmation:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	T	-		A	nalvsis / C	ootaiper / Pi	eservative	The second second	Chain of Custor	ty Page 1 of	3
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Report to: Bryan Haney			and the second second second	bryan.haney@alta rlando.Gonzalez@		:om		() () () () () () () () () () () () () (		۲.				12065 Lebanon Rd N	August Juliet, TN 37122 via this shain of custody	
Project Description: Novo Ovating Fad O Release-	GARBER BUR	City/State Collected:	LOJINO	I NM	Please C PT (MT)		100		State State	ml/S				constitutes acknowle Pace Terms and Con- https://info.pacelabs	edgment and acceptance of	the
Phone: 361-658-3126	Client Project	103 PHASE		Lab Project # ALTAMIRAA	1		Pres		ml/Syr	40mlAmb/MeOH10ml/Syr				SDer H	55268	F 1
Collected by (print):	Site/Facility	ID #	Aler Ma	P.O. #	Acres 1		L-NC	es	HIO	W/q				GO	76 57010	-14
BH-104	CULTB	RA BUF	F	-		E.	ozCl	loPr	AeO	Aml				Acc. 14	57010	1
Collected by (signature):	Participant and	(Lab MUST Be Day Five	10000	Quote #		-	0 4	Ir-N	N/q	Oml		17		Template: T2		
Immediately Packed on Ice NY	Next D Two D	ay 5 Da	y (Rad Only) ay (Rad Only)	Date Result	s Needed	No. of	CHLORIDE-300 4o2Clr-NoPres	M 4ozClr-NoPres	40miAmb/MeOH10mi/Syr					Prelogin: P9 PM: 134 - Ma PB: 122	ark W. Beasley	2
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HLOF	DRONM	GRO 4	V8260BTEX				Shipped Via: Remarks	Sample # (lab on	and the second second
58-13 (0-1)	6	SS	101'	1/26/22	84	2	X	X	X	Ý					DF	
58-13 (1-2-)	G	SS	1-2-	1/26/22	844	2	X	X	X	V		1983			07	
SB-13 (2-3-)	G	SS	23'	1/24/22	848	2		1					- Harris		-03	
SB-13 (3-1).	6	SS	3-4-	1/26/22	851	2			and a	100				1. Starten	-04	-0
SB-12 (0-1-)	6	\$\$	0-1	126/22	859	2	X	X	X	X		1337	157560	S. Carton	-05	
SB-15 (0-1-)	G	SS	0-1	1/26/22	914	2	X	X	X	X					-06	
SB-15 (1-2-)	6	SS	1-2'	1/20/22	917	2	X	X	X	X					-07	
SB-16 (0-1')	6	SS	0-1	1/26/22	927	2	X	X	X	X			-	Sector Sector	-04	
SB-14 (0-1-)	6	SS	0-1'	1/20/2	935	2	X	X	X	X					·Dot	
SB-19 (0-1-)	6	SS	0-1'	1/2/2	956	2	X	X	X	X		12 Maria			1-10	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioa	Remarks:	DESIGN	2 MUUNIE	s on Have	PGNDIN	X		el.		рн	Tem	ρ	COC Seal	erple Receipt ( Present/Intac ed/Accurate:	t: NP	NN
WW - WasteWater DW - Drinking Water	and the second second	-961'S'	Barrie Circle	Toria and Land	the of the state		-	and the	Service .	Flow	Oth	er	Gorrect	arrive intact: bottles used:	3.	NN
OT - Other	Samples returned UPS FedE			Trackin	······································	89	40	19	38	10				nt volume sent If Applics Beadspace:		-
Relinguished by : (Signature)	The second se	1 26 2022	Time	30 Receiv	ed by: (Signal	ture)			the subscription of the local division of the local division of the local division of the local division of the	No. of Concession, Name	Seceived:	HCL/MeoH	Preserva	tion Correct/C en <0.5 mR/hr:	hecked:	N Z N
Relinquished by : (Signature)	the second s	Date:	Time		ed by: (Signa	ture)		N.N.N	T		and the second second	ties Received:	If preserva	ation required by L	ogin: Date/Time	In
Relinquished by : (Signature)	C	)ate;	Time	tecol	ed for lab by	(Signati	NS.	tra	5	1271.	2027.0 Tin		Hold:		Condition: NCF / OK	

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And Street States	ology Drive, Ste 1 X 77515			A Section of the sect	aney chnology Drive n, TX 77515	e, Ste 120	Pres Chk	A STATE		A THE AND A					- Pa	CC"
Report to: Bryan Hane	y			CONTRACTOR OF THE OWNER	ryan.haney@alta lando.Gonzalez@		com				٨٢				MT JU 12065 Lebanon Rd Mour Submitting a sample via	
Project Descrip	stion:	GRAA BUIFF	City/State Collected:	INUNT	NN	Please C PT (MT)	CT ET				ml/S				constitutes acknowledge Pace Terms and Conditio https://info.pacelabs.com terms.pdf	nent and acceptance of the instance of the ins
Phone: 361-6	and the low with a	Client Project		001	Lab Project # ALTAMIRAA	TX-NOVO		Pres		ml/Syı	eOH10				SDG # 145	5262
Collected by (p	orint):	Site/Facility I	o# BWFF		P.O. #		1	Clr-No	Pres	OHIO	40mlAmb/MeOH10ml/Syr				Table # L1	57010
Collected by (s	ignature):	Rush? (	Lab MUST Be	about the second	Quote #		1	0 402	4ozClr-NoPres	b/Me	OmlAr				Template:T20	1884
Immediately Packed on Ice			bay Five ay 5 Dar ay 10 D Day		Date Resul	ts Needed	No. of	CHLORIDE-300 4ozClr-NoPres	M 4ozC	40mlAmb/MeOH10ml/Syr	V8260BTEX 4				Prelogin: P900 PM: 134 - Mark PB: 000	W. Beasley
	Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLOI	DRONM	GRO 4	/8260				Shipped Via: Fe Remarks	dEX Ground Sample # (lab only)
58-20	(0-1-)	G	SS	0-1'	126/22	1005	2	X	X	X	X	1			in the second	H
58-20	(1-2-)	G	55	1-2'	Ihula	1008	2	X	X	X	K					-12
58-20	(2-3-)	G	SS	2-3'	1/24/22	1011	2	The second		125		City of			and the second	-13
58-17	(0-17)	G	55	0-1	1 26/22	1022	2	X	X	X	X					-++
58-17	(1-2-)	G	SS	1-2-	1/26/22	1025	2	X	X	X	X					-15
58-17	(2-3-)	Ġ	SS	2-3-	1/24/22	1027	2	100	Sical a		1 main				and start	146
SB-21	(0-1)	G	SS	0-1	1/26/22	1044	2	X	Y	V	X	22	(all) Printer and			-77
SB-21	(1-2)	6	SS	12:7'	Tache	1048	2	X	X	V	X	1				-14
5878			SS		110010	1010			1A	0.24	1					
SE			SS	19	The second	1. 200	1	5.35	12012	1 March	1				Contraction of the second	
* Matrix: SS - Soil AIR GW - Groundw WW - WasteW	ater <b>B</b> - Bloassay later	Remarks: D&	spear and	mand r	an Holo	PENDING		<u>172.</u>			pH Flow		Temp Other	COC Seal COC Signe Bottles a	nple Receipt Ch Present/Intact: d/Accurate: rrive intact: ottles used:	- NE CANAN
DW - Drinking OT - Other	Water	Samples returned UPS A FedEx			Tracki	ne# 54	89	40	19	38	10		and and a second	Sufficien	t volume sent: If Applicab Headspace:	Le ZY N
Relinguished b	m		ate: 126/2	Time	Receiv	ed by: (Signa	ture)			and the second party of	ADDRESS OF TAXABLE	Q	d: Yes No HCL/MeoH TBR	Preservat	ion Correct/Gbe n <0.5 mR/hr;	scked: CY_N
Relinquished b	oy : (Signature)	D	ate!	Time	Receiv	ed by: (Signa	ture)			- W	Temp: BAA	23.5	Bottles Received: 84.0=3.8	If preservat	ion required by Log	in: Date/Time
Relinguished b	oy : (Signature)	D	ate:	Time	Repeir	ed for lab by	Signatu	AC	the	D	Date:	1/22	Time: 090	O Hold:		Condition: NCF / K

Company Name/Address:			Billing Info	rmation:	ALC: NO			1		Apalysis / C	ontainer /	Preserva	tiye			hain of Custody	Page 3 of 3
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Report to: Bryan Haney			the second second second second	oryan.haney@alt. lando.Gonzalez@		com				-		No. 1		and the second		2065 Lebanon Rd. Mos	
Project Description: Novo Ovation Pad O Release (UVS	ANA BLUFF	City/State Collected:	LUING	. NM	Please C PT (MT)			116		ml/S					4	ace Terms and Condition	ment and acceptance of the
Phone: 361-658-3126	Client Projec	Client Project # NVONM2103 PHASE 001 Site/Facility ID # CULEBLA BLUIF		Lab Project # ALTAMIRAA	Statistics and		Pres	Pres	ml/Syr	40mlAmb/MeOH10ml/Syr		No. of the local division of the local divis		and the second sec	Charles T	erms adl	5262
Collected by (print):				P.O. #			Clr-No		eOH10	mb/M					Stan Bild Love		AMIRAATX
Collegted by (signature):	Rush? Same I Next D Two D Three	ay5 Da	Set of the set of the	Quote # Date Resul	ts Needed	No. of	CHLORIDE-300 4ozClr-NoPres	DRONM 402Clr-NoPres	40mlAmb/MeOH10ml/Syr						T P P	emplate:T20 Prelogin: P90 M: 134 - Mari	1884 0101
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HLOR	RONN	GRO 4(	V8260BTEX					12.11.	-Hee	dEX Ground
58-18 (0-1-)	G	55	0-1'	1/26/22	1104	2	X	a X	X	X				- Charles			-19-
56-18 (1-7-) 56-18 (2-3-)	6	22 22 22	1-2'	1/21/22	1107	2	X	X	X	X						<u>.</u>	-20 21
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	24 See 16	\$5	A. The		The second second		Vat	1230			1						
		SS SS				-	1998		Star and							A CARACTER	
		55	11/22						1			100					A CONTRACTOR
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bloassay WW - WasteWater	Remarks:	DEERE	l Smi	PLEJ ON I	JUD PE	5VDIW	L.			pH	Ter Oth	Sell felt		COC Sea	1 Pres ned/Ac	Receipt Ch ent/Intact: curate: e intact:	
DW - Drinking Water OT - Other	Samples returned			Tracki	18 × 54	lag	4	19	N	<i>BID</i>		S.C.	iyes.	Suffici	lent vo	es used: lume sent: f Applicap:	
Relinquished by: (Signature)	Section in the section of the	126/202	Time:		ed by: (Signati	ure)	10	L.		rip Blank R	anda:	Yes No HCL/N TBR		Preserv	ration	space: Correct/Che .5 mR/hr:	ecked: $Z_{Y} = N$ $Z_{Y} = N$
Relinquished by : (Signature)	Da	ite:	Time:	Receiv	ed by: (Signati	ure)			T	emp: 2/442	°C 80 391		/	If presen	vation re	quired by Log	in: Date/Time
Relinquished by : (Signature)	Da	ite:	Time:	Beceiv	ed for lab by: 1 NSM	(Signator	10) ×	nk	21	ate: 1/2		ne: 09	100	Hold:			Condition: NCF / OK

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# L1455262 \*ALTAMIRAATX\* relog

Relog the following as R4 due 2/7:

L1455262-04 CHLORIDE-300, transfer TS

L1455262-16 CHLORIDE-300, transfer TS

L1455262-21 CHLORIDE-300, transfer TS

\*From:\* Bryan Haney <Bryan.Haney@Altamira-us.com>

\*Sent:\* Wednesday, February 02, 2022 10:32 AM

\*To:\* Mark Beasley <Mark.Beasley@pacelabs.com>

\*Subject:\* RE: Pace Analytical National Level II Report for NVONM2103 PHASE 001 Novo Culebra Bluff L1455262 CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mark,

Need to add the following to this report and please send an updated/revised invoice (I am deleting the prior invoice). Thank you

SB-13 (3-4') - chlorides

SB-17 (2-3') - chlorides

SB-18 (2-3') - chlorides

\*Bryan Haney, TX P.G\*

\*Senior Project Manager\* | 361.658.3126 | altamira-us.com

\*\*

--- Email body truncated due to large size. Full email body added as attachment. ---

Time spent: oh

Time estimate: oh

Members

MB) Mark Beasley (responsible)

Pace Analytical<sup>®</sup> ANALYTICAL REPORT

# Altamira - Angleton, TX

Sample Delivery Group:	
Samples Received:	
Project Number:	
Description:	
Site:	
Report To:	

L1463701 01/27/2022 NVONM2103 PHASE 001 Novo Culebra Bluff CULEBRA BLUFF Bryan Haney 4001 Technology Drive, Ste 120 Angleton, TX 77515

Тс Ss Cn Ϋ́r Śr Qc GI A Sc

Сp

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

# Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Released to Imaging: 9/27/2022 8:11:41 AM Altamira - Angleton, TX PROJECT: NVONM2103 PHASE 001 SDG: L1463701 DATE/TIME: 02/28/22 13:34

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Ср Ss Cn Ϋ́r Sr Qc GI ΆI Sc

Released to Imaging: 21/2022 8:11:41 AM Altamira - Angleton, TX

PROJECT: NVONM2103 PHASE 001

SDG: L1463701

DATE/TIME: 02/28/22 13:34 PAGE: 2 of 16

# SAMPLE SUMMARY

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Ср

Tc

Ss

SB-2(6-7') L1463701-01 Solid			Collected by BH/OG	Collected date/time 01/25/22 11:29	Received dat 01/27/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1823149	1	02/25/22 14:28	02/25/22 14:35	СМК	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1821941	5	02/22/22 13:02	02/22/22 16:19	KEG	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
SB-2(8-9') L1463701-02 Solid			BH/OG	01/25/22 11:33	01/27/22 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1823149	1	02/25/22 14:28	02/25/22 14:35	СМК	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1821941	5	02/22/22 13:02	02/22/22 17:19	KEG	Mt. Juliet, TN

PAGE: 3 of 16

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

h

Mark W. Beasley Project Manager

Released to Imaging: 9/271/2022 8:11:41 AM Altamira - Angleton, TX PROJECT: NVONM2103 PHASE 001 SDG: L1463701 DATE/TIME: 02/28/22 13:34

E: ::34 PAGE: 4 of 16

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - Samples associated with the MS/MSD clearly identified.
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte
  - for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley Project Manager

Lab	orato	ry Name: Pace Analytical National	LRC Date: 02/28/2022 13:34					
Proj	ject N	lame: Novo Culebra Bluff	Laboratory Job Number: L1463701-01 and 02					
Rev	viewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1821941 and WG1823149					
# <sup>1</sup>	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER#
R1	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	X				
		Were all departures from standard conditions describe	d in an exception report?	1		Х		
R2	OI	Sample and quality control (QC) identification	· · ·	•	•	-		
		Are all field sample ID numbers cross-referenced to the	e laboratory ID numbers?	X	1	Т	Т	T
		Are all laboratory ID numbers cross-referenced to the	•	X				
R3	0	Test reports					•	
110		Were all samples prepared and analyzed within holdin	a timos?	X	1	1	T	T
		Other than those results < MQL, were all other raw values and analyzed within Holding	-	X			-	
				X		+	+	-
		Were calculations checked by a peer or supervisor?	· •			_		
		Were all analyte identifications checked by a peer or s	· · · · · · · · · · · · · · · · · · ·	X				_
		Were sample detection limits reported for all analytes		X	_			
		Were all results for soil and sediment samples reported		X			<b> </b>	
		Were % moisture (or solids) reported for all soil and see		X				
		Were bulk soils/solids samples for volatile analysis extra	racted with methanol per SW846 Method 5035?	X				
		If required for the project, are TICs reported?				Х		
R4	0	Surrogate recovery data						
		Were surrogates added prior to extraction?				Х		
		Were surrogate percent recoveries in all samples withi	n the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples						
		Were appropriate type(s) of blanks analyzed?		X			1	
		Were blanks analyzed at the appropriate frequency?		X				
		Were method blanks taken through the entire analytica	al process including preparation and if applicable					
		cleanup procedures?		X				
		Were blank concentrations < MQL?		X				
R6	OI	Laboratory control samples (LCS):				•	•	
-		Were all COCs included in the LCS?		X	1	Т	Т	T
		Was each LCS taken through the entire analytical proc	edure, including prep and cleanup steps?	X			1	
		Were LCSs analyzed at the required frequency?		X				
		Were LCS (and LCSD, if applicable) %Rs within the labo	pratony OC limits?	X			+	
		· · · · · · · · · · · · · · · · · · ·	le laboratory's capability to detect the COCs at the MDL					
		used to calculate the SDLs?	le laboratory's capability to detect the COCs at the MDE	X				
		Was the LCSD RPD within QC limits?		X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) dat	a	<u> </u>			<u> </u>	-
	<b>.</b>	Were the project/method specified analytes included in		X	1	1	T	T
		Were MS/MSD analyzed at the appropriate frequency?		X			+	
		Were MS (and MSD, if applicable) %Rs within the laboration			X			+
		Were MS/MSD RPDs within laboratory QC limits?		X	~			
R8	OI	Analytical duplicate data					1	
ко			ch matrix?	X	1	T	T	1
		Were appropriate analytical duplicates analyzed for ea						-
		Were analytical duplicates analyzed at the appropriate	• •	X		-		
		Were RPDs or relative standard deviations within the la	aboratory QC limits?	X	I			
R9	OI	Method quantitation limits (MQLs):		<b>.</b>	1	-	<u> </u>	1
		Are the MQLs for each method analyte included in the		X		_		
		Do the MQLs correspond to the concentration of the lo		X				
		Are unadjusted MQLs and DCSs included in the labora	itory data package?	Х				
R10	OI	Other problems/anomalies						_
		Are all known problems/anomalies/special conditions i	noted in this LRC and ER?	X				
		Was applicable and available technology used to lowe the sample results?	r the SDL to minimize the matrix interference effects on	х				
		Is the laboratory NELAC-accredited under the Texas La and methods associated with this laboratory data pack	aboratory Accreditation Program for the analytes, matrices age?	х				
shou 2. O 3. N/ 4. Ni	ld be r = orga A = No R = No	ntified by the letter "R" must be included in the laborato etained and made available upon request for the approp nic analyses; I = inorganic analyses (and general chemi t applicable; t reviewed;	ry data package submitted in the TRRP-required report(s). priate retention period.		identifie	ed by th	ie lettei	- "S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1463701

# Revised May 2010 Laboratory Review Checklist: Supporting Data

Lab	orato	ry Name: Pace Analytical National	RC Date: 02/28/2022 13:34					
Proj	ject N	lame: Novo Culebra Bluff	aboratory Job Number: L1463701-01 and 02					
Rev	iewe	r Name: Mark W. Beasley Pr	rep Batch Number(s): WG1821941 and WG1823149					
<b>#</b> 1	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
51	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response factors for	r each analyte within QC limits?			Х		
		Were percent RSDs or correlation coefficient criteria met?		X				
		Was the number of standards recommended in the method	d used for all analytes?	X	1			
		Were all points generated between the lowest and highes	t standard used to calculate the curve?	X			1	
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an app	ropriate second source standard?	X				
2	OI	Initial and continuing calibration verification (ICCV and CC)	· ·		•		•	
_		Was the CCV analyzed at the method-required frequency?		X	1	1		
		Were percent differences for each analyte within the meth		X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the	pinorganic CCB < MDI ?	X				
3	0	Mass spectral tuning				1	I	· · · ·
	Ĭ	Was the appropriate compound for the method used for tu	ining?	T	T	X	r –	
		Were ion abundance data within the method-required QC	· ·			X		
4	0	Internal standards (IS)		I	I		I	I
-	10	Were IS area counts and retention times within the method	d required OC limite?	X	T	1	r	1
F		Raw data (NELAC Section 5.5.10)				I	I	I
5	OI				1	1	1	1
		Were the raw data (for example, chromatograms, spectral		X		X		
<u>^</u>		Were data associated with manual integrations flagged on	the raw data?	1		Х		
6	0	Dual column confirmation		T	1		r –	1
-		Did dual column confirmation results meet the method-req	juired QC?			Х		
7	0	Tentatively identified compounds (TICs)		· · ·	T			
-	1.	If TICs were requested, were the mass spectra and TIC da	ta subject to appropriate checks?			Х		
8		Interference Check Sample (ICS) results			-	1	r –	
	1.	Were percent recoveries within method QC limits?				Х		
9	1	Serial dilutions, post digestion spikes, and method of stand			1	1		
		Were percent differences, recoveries, and the linearity with	hin the QC limits specified in the method?			Х		
10	OI	Method detection limit (MDL) studies		-		1		-
		Was a MDL study performed for each reported analyte?		X				
	_	Is the MDL either adjusted or supported by the analysis of	DCSs?	X				
11	OI	Proficiency test reports						
		Was the laboratory's performance acceptable on the appli-	cable proficiency tests or evaluation studies?	X				
512	OI	Standards documentation		-		-	_	-
		Are all standards used in the analyses NIST-traceable or o	btained from other appropriate sources?	X				
513	OI	Compound/analyte identification procedures						
		Are the procedures for compound/analyte identification do	ocumented?	X				
14	OI	Demonstration of analyst competency (DOC)						
		Was DOC conducted consistent with NELAC Chapter 5?		X				
		Is documentation of the analyst's competency up-to-date a	and on file?	X				
15	OI	Verification/validation documentation for methods (NELAC		•		•	•	
		Are all the methods used to generate the data documente		X				
516	OI	Laboratory standard operating procedures (SOPs)	· · · · · · · · · · · · · · · · · · ·				•	
_		Are laboratory SOPs current and on file for each method p	performed	X	I		ſ	
hou 2. O 3. N/	ld be r = orga A = No	ntified by the letter "R" must be included in the laboratory d etained and made available upon request for the appropriat inic analyses; I = inorganic analyses (and general chemistry, t applicable; t reviewed;	ata package submitted in the TRRP-required report(s). te retention period.	Items i	dentifie	d by th	e letter	"S"

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PROJECT: NVONM2103 PHASE 001 SDG: L1463701 DATE/TIME: 02/28/22 13:34

Laborato	ory Name: Pace Analytical National	LRC Date: 02/28/2022 13:34							
Project N	Name: Novo Culebra Bluff	Laboratory Job Number: L1463701-01 and 02							
Reviewe	r Name: Mark W. Beasley	Prep Batch Number(s): WG1821941 and WG1823149							
ER # <sup>1</sup>	Description								
1	9056A WG1821941 Chloride: Percent Recovery is outside of established control limits.								
	<ol> <li>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</li> </ol>								

O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

SDG: L1463701

DATE/TIME: 02/28/22 13:34

# SAMPLE RESULTS - 01

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		94.1		1	02/25/2022 14:35	WG1823149	Tc

## Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1570	<u>J6</u>	48.9	20.0	106	5	02/22/2022 16:19	WG1821941



DATE/TIME: 02/28/22 13:34

# SAMPLE RESULTS - 02

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# Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte		%			date / time		2
Total Solids		88.4		1	02/25/2022 14:35	WG1823149	Tc

## Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2380		52.0	20.0	113	5	02/22/2022 17:19	WG1821941



DATE/TIME: 02/28/22 13:34

# Regering 86 1 5/20/2022 3:34:57 PM

Total Solids by Method 2540 G-2011

## QUALITY CONTROL SUMMARY L1463701-01,02

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Qc

GI

Å

Sc

## Method Blank (MB)

(MB)					1
2/25/22 14:35					
MB Result	MB Qualifier	MB MDL	/B RDL		ſ
%		%	, 5		
0.00200					1
	2/25/22 14:35 MB Result %	2/25/22 14:35 MB Result <u>MB Qualifier</u> %	2/25/22 14:35 MB Result <u>MB Qualifier</u> MB MDL M % % %	2/25/22 14:35 MB Result MB Qualifier MB MDL MB RDL % % %	2/25/22 14:35       MB Result     MB MDL       %     %

## L1463701-02 Original Sample (OS) • Duplicate (DUP)

L1463701-02 Origi		· · · ·		,		
(OS) L1463701-02 02/25/	/22 14:35 • (DU	IP) R3764500-3	3 02/25/2	2 14:35		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	88.4	88.5	1	0.149		10

# Laboratory Control Sample (LCS)

(LCS) R3764500-2 0	2/25/22 14:35				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

DATE/TIME: 02/28/22 13:34

PAGE: 11 of 16

# Reg @ q & D Q 1: 5/20/2022 3:34:57 PM

Wet Chemistry by Method 9056A

# QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3762847-1 02/	/22/22 15:41			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

# L1463701-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463701-01 02/22/2	(OS) L1463701-01 02/22/22 16:19 • (DUP) R3762847-3 02/22/22 16:34												
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits							
Analyte	mg/kg	mg/kg		%		%							
Chloride	1570	1380	5	12.8		15							

# Laboratory Control Sample (LCS)

(LCS) R3762847-2 02/22	.CS) R3762847-2 02/22/22 15:56										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
Chloride	200	198	99.2	80.0-120							

# L1463701-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463701-01 02/22/22	DS) L1463701-01 02/22/22 16:19 • (MS) R3762847-4 02/22/22 16:49 • (MSD) R3762847-5 02/22/22 17:04												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	531	1570	1990	1950	77.4	71.4	5	80.0-120	16	16	1.62	15	

Ср

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#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

#### Abbreviations and Definitions

	Demittoris
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

J6

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

SDG: L1463701 DATE/TIME: 02/28/22 13:34

# Received by OCD: 5/20/2022 3:34:57 PM CCREDITATIONS & LOCATIONS

Page 31(	) of 377
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Sc

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee <sup>14</sup>	2006
ouisiana	LA018	Texas	T104704245-20-18
<i>l</i> aine	TN00003	Texas ⁵	LAB0152
flaryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Aichigan	9958	Virginia	110033
Vinnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1463701

Company Name/Address:			Billing Infor	mation:		1.00	Leven		A	palusis ( Cor	ntainer / Preservative	Chain of Cu	istody Page 2 00	
Altamira - Angleton, 1001 Technology Drive, Ste 1 Angleton, TX 77515	4001 Technology Drive, Ste 120		4001 Technology Drive, Ste 120		4001 Technology Drive, Ste 1			Pace Propie Atmacing Britance L 1463701						
eport to: Bryan Haney		Service Provide the service of the s		ryan.haney@alta ando.Gonzalez@		com	- Aller		A STATE	×		12065 Lebanor	AT JULIET, TN Rd Mount Juliei, TN 37122 Imple via this chain of custody	199
roject Description: Novo October Pedio Release (UL	RAA RINKE	City/State Collected:	LOUING	5100	Please C PT MD	arcle:			「日本の	ml/s		constituies ad Pace Terms an	nowindgment and acceptance of the d Conditions found at: celabs.com/hubfs/pas-standard-	
"hone: 361-658-3126	Client Project NVONM21	#		Lab Project # ALTAMIRAA	A STATE		oPres		Jml/Syr	40mlAmb/MeOH10ml/Syr		SDG # 1	455251	2/21
Blt 0G	Site/Facility ID		F	P.O. #	New P		ozClr-N	loPres	AeOH10	Amb/N		THE PARTY OF THE PARTY OF THE	ALTAMIRAATX	
mmediately Packed on Ice N Y	Same Di		Day	Quote # Date Result	ts Needed	No. of	CHLORIDE-300 4o2Clr-NoPres	M 4ozClr-NoPres	40mlAmb/MeOH10ml/5y			Prelogin: PM, 134 PB	T201884 P900101 Mark W. Beasley	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	HLOF	DRONM	GRO 4	V8260BTEX		Shipped V Rema	ria FedEX Ground	
SB-2 (0-1')	G	SS	0-1'	1125/22	1111	2	X	X	X	X			-06	
58-2 (2-3')	G	SS	2.3'	1125 22	1119	2	and the second se	X	X	X			-07	
562 (3.4')	G	SS	3-4'	1 25 22	1121	2	1000		1.0				-08	
SB-2 (4-5')	6	SS	45'	12512	1123	2	1000						TOT	
SB-2 (6-7)	G	SS	6-7	125/22	1129	2	195	1		1000			10	-01
SB2 (8-9')	6	SS	89'	1252	1133	2	-						tt	-62
SGZ (9-10')	G	SS	9.10	1252	1135	2	1.00		12/20				TF	
SB-2 (H-15')	6	SS	14-15-	1/25/22	1140	2	1005	28.1	19-18				-13	
		SS		Constanting	1000				112					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: D	EGAGE S	Somplas	PENDING	Anneysis					pH	Other	Sample Receip OC Gesi Present/In DC Signed/Accurate Sottler arrive inte Correct battles use	tact: NP Y N Sti Y N	
DW - Drinking Water OT - Other	Samples returned UPSedEx			Track	ns# 54	89	401	9	382	Ð		Ufficient volume s <u>If Arpl</u> OA Zero Neadspace:	ent: <u></u> N <u>icable</u> Y_N	
Relinquished by (Signature)	a	126/201		30	ved by: (Signa					Trip Blank R	HCL/MeoH	Preservation Correc RAD Screen v0.5 mR/	hr: <u>Zr</u> _N	
Relinquished by : (Signature)		ate:	Time	12 10	ved by: (Signa	al.			NG.	and the second se	2.6t.0=2.6 Th	f preservation required		
Relinquished by : (Signature)	D	ate:	Time	Race	und for lab by	r: (Signa	A SI	sthe	b	Date:	Time: 0900	fold:	NCF / OK	

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# L1455251 \*ALTAMIRAATX\* relog

Relog L1455251-10 & -11 for CHLORIDE & TS. Log as R5 due 2/28.

---Original Message-----

From: Bryan Haney <Bryan.Haney@Altamira-us.com> Sent: Saturday, February 19, 2022 11:24 AM To: Mark Beasley <Mark.Beasley@pacelabs.com>

Subject: RE: Pace Analytical National Login for NVONM2103 PHASE 001 Novo Culebra Bluff L1455251

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

Good point, sorry

SB-2 - (6-7) and (8-9')

Thank you

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 | altamira-us.com

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P Please consider the environment before printing this email

Time estimate: oh	Time spent:	oh	
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Members			

MB Mark Beasley (responsible)

R5



May 12, 2022

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: NOVO CULEBRA BLUFF

Enclosed are the results of analyses for samples received by the laboratory on 04/29/22 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:		Reported: 12-May-22 15:16
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-2 (1-2)	H221766-01	Soil	28-Apr-22 10:28	29-Apr-22 10:35
SB-2 (3-4)	H221766-03	Soil	28-Apr-22 10:30	29-Apr-22 10:35
SB-2 (6-7)	H221766-05	Soil	28-Apr-22 10:34	29-Apr-22 10:35
SB-2 (9-10)	H221766-07	Soil	28-Apr-22 10:36	29-Apr-22 10:35
SB-2 (11-12)	H221766-09	Soil	28-Apr-22 10:41	29-Apr-22 10:35
SB-2 (13-14)	H221766-11	Soil	28-Apr-22 10:43	29-Apr-22 10:35
SB-5 (3-4)	H221766-13	Soil	28-Apr-22 09:07	29-Apr-22 10:35
SB-5 (4-5)	H221766-14	Soil	28-Apr-22 09:09	29-Apr-22 10:35
SB-5 (6-7)	H221766-15	Soil	28-Apr-22 09:14	29-Apr-22 10:35
SB-5 (8-9)	H221766-16	Soil	28-Apr-22 09:19	29-Apr-22 10:35
SB-6 (3-4)	H221766-20	Soil	28-Apr-22 14:20	29-Apr-22 10:35
SB-6 (4-5)	H221766-21	Soil	28-Apr-22 14:21	29-Apr-22 10:35
SB-6 (6-7)	H221766-22	Soil	28-Apr-22 14:24	29-Apr-22 10:35
SB-6 (8-9)	H221766-23	Soil	28-Apr-22 14:26	29-Apr-22 10:35
SB-7 (3-4)	H221766-25	Soil	28-Apr-22 15:16	29-Apr-22 10:35
SB-8 (2-3)	H221766-30	Soil	28-Apr-22 13:46	29-Apr-22 10:35
SB-8 (3-4)	H221766-31	Soil	28-Apr-22 13:50	29-Apr-22 10:35
SB-8 (4-5)	H221766-32	Soil	28-Apr-22 13:53	29-Apr-22 10:35
SB-8 (8-9)	H221766-34	Soil	28-Apr-22 13:56	29-Apr-22 10:35
SB-8 (10-11)	H221766-35	Soil	28-Apr-22 13:58	29-Apr-22 10:35
SB-8 (12-13)	H221766-36	Soil	28-Apr-22 14:00	29-Apr-22 10:35
SB-9 (3-4)	H221766-38	Soil	27-Apr-22 16:44	29-Apr-22 10:35
SB-9 (4-5)	H221766-39	Soil	27-Apr-22 16:56	29-Apr-22 10:35
SB - 11 ( 4-5 )	H221766-45	Soil	28-Apr-22 15:45	29-Apr-22 10:35
SB-11 (6-7)	H221766-46	Soil	28-Apr-22 15:48	29-Apr-22 10:35
SB - 11 (8-9)	H221766-47	Soil	28-Apr-22 15:49	29-Apr-22 10:35
SB - 11 ( 10-11 )	H221766-48	Soil	28-Apr-22 15:52	29-Apr-22 10:35

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418		Project: Project Number: Project Manager: Fax To:		Reported: 12-May-22 15:16
SB-12 (1-2)	H221766-51	Soil	28-Apr-22 11:18	29-Apr-22 10:35
SB-12 (2-3)	H221766-52	Soil	28-Apr-22 11:19	29-Apr-22 10:35
SB-12 (3-4)	H221766-53	Soil	28-Apr-22 11:20	29-Apr-22 10:35
SB-18 (4-5)	H221766-60	Soil	28-Apr-22 16:31	29-Apr-22 10:35
SB-18 (6-7)	H221766-62	Soil	28-Apr-22 16:38	29-Apr-22 10:35
SB-22 (0-1)	H221766-64	Soil	28-Apr-22 09:49	29-Apr-22 10:35
SB-22 (2-3)	H221766-66	Soil	28-Apr-22 09:51	29-Apr-22 10:35
SB-22 (3-4)	H221766-67	Soil	28-Apr-22 09:52	29-Apr-22 10:35
SB-22 (6-7)	H221766-69	Soil	28-Apr-22 09:54	29-Apr-22 10:35
SB-22 (8-9)	H221766-70	Soil	28-Apr-22 09:55	29-Apr-22 10:35
SB-23 (0-1)	H221766-74	Soil	28-Apr-22 13:03	29-Apr-22 10:35
SB-23 (2-3)	H221766-76	Soil	28-Apr-22 13:05	29-Apr-22 10:35
SB-23 (3-4)	H221766-77	Soil	28-Apr-22 13:14	29-Apr-22 10:35

05/05/22 - Client added Chlorides on 05/03/22 (See COC). This is the revised report and will replace the one sent on 05/02/22.

05/10/22 - Client added Chlorides on 05/05/22 (See COC). This is the 2nd revision of the report and will replace the one sent on 05/05/22.

05/12/22 - Client added Chlorides on 05/10/22 (See COC). This is the 3rd revision of the report and will replace the one sent on 05/10/22.

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	ovo culebra Vonm 2103 Ryan haney	A BLUFF		1	Reported: 2-May-22 15	:16
SB - 2 ( 1-2 ) H221766-01 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	5360		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num	ber: N ger: E	Novo Culebry Nvonm 2103 Bryan Haney	A BLUFF	1	Reported: 12-May-22 15:16			
SB - 2 ( 3-4 ) H221766-03 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	2640		16.0	mg/kg	g 4	2050334	AC	03-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF	1	Reported: 12-May-22 15:16			
SB - 2 ( 6-7 ) H221766-05 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	2920		16.0	mg/kg	4	2050334	AC	03-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	Iovo Culebr. Ivonm 2103 Iryan Haney		1	Reported: 12-May-22 15:16				
SB - 2 ( 9-10 ) H221766-07 (Soil)												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
Cardinal Laboratories												
Inorganic Compounds												
Chloride	3200		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Numl Project Manag Fax	per: N ger: B		A BLUFF	1	Reported: 12-May-22 15:16			
SB - 2 ( 11-12 ) H221766-09 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	3520		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF	1	Reported: 12-May-22 15:16			
SB - 2 (13-14) H221766-11 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	480		16.0	mg/kg	4	2051123	GM	11-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Nun Project Mana	nber: NV			1	Reported: 12-May-22 15:16			
SB - 5 ( 3-4 ) H221766-13 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	1800		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF	1	Reported: 12-May-22 15:16			
SB - 5 ( 4-5 ) H221766-14 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	1060		16.0	mg/kg	4	2050334	AC	03-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	NOVO CULEBRA NVONM 2103 BRYAN HANEY	A BLUFF	1	Reported: 12-May-22 15:16			
SB - 5 ( 6-7 ) H221766-15 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	768		16.0	mg/kg	g 4	2050637	AC	06-May-22	4500-Cl-B		

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: Bl		A BLUFF		1	Reported: 2-May-22 15:	16
				5 ( 8- 766-16 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	Iovo Culebr/ Ivonm 2103 Ryan Haney	A BLUFF		1	Reported: 2-May-22 15	:16
				6 (3 766-20	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	1060		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15:	:16
				6 (4 766-21 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	1170		16.0	mg/kg	4	2050334	AC	03-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
				6 ( 6 766-22 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	416		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
				6 ( 8 766-23 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Numl Project Manag Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - H2217	``	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	480		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proje Project Numl Project Manag Fax	per: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - H2217	`	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labo	ratories					
Inorganic Compounds										
Chloride	3280		16.0	mg/kg	ş 4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - H2217	8 (3 166-31	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	2320		16.0	mg/kg	4	2050334	AC	03-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	Iovo Culebri Ivonm 2103 Ryan Haney	A BLUFF		1	Reported: 2-May-22 15	:16
				8 ( 4 766-32 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	3000		16.0	mg/kg	4	2050334	AC	03-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	Iovo Culebr Ivonm 2103 Ryan Haney	A BLUFF		1	Reported: 2-May-22 15	:16
				8 ( 8 766-34 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	864		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	NOVO CULEBR/ NVONM 2103 BRYAN HANEY	A BLUFF		1	Reported: 2-May-22 15	:16
			SB - 8 H2217	3 (10 766-35	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	768		16.0	mg/kg	g 4	2051123	GM	11-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Numl Project Manag Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - 8 H2217	`	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	2051123	GM	11-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: NV				1	Reported: 2-May-22 15	:16
				9 ( 3- 766-38 (S	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	atories					
Inorganic Compounds										
Chloride	1400		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Numl Project Manag Fax	per: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - H2217		<i>.</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Labor	ratories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	Iovo Culebri Ivonm 2103 Ryan Haney	A BLUFF		1	Reported: 2-May-22 15	:16
				11 ( 4 766-45 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	800		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	ovo culebr. Vonm 2103 Ryan haney	A BLUFF		1	Reported: 2-May-22 15	:16
				11 ( ( 766-46 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laboi	ratories					
Inorganic Compounds										
Chloride	1140		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF		1	Reported: 2-May-22 15	:16
				11 ( 8 766-47 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	528		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - 1 H2217	1 ( 10 766-48 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	592		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: B		A BLUFF		1	Reported: 2-May-22 15	:16
			SB - 1 H2217		,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	ratories					
Inorganic Compounds										
Chloride	6960		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF		1	Reported: 2-May-22 15	:16
				12 ( 2 766-52 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	3800		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N\				1	Reported: 2-May-22 15	:16
				12 ( 3 766-53 (\$	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor:	atories					
Inorganic Compounds										
Chloride	544		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N				1	Reported: 2-May-22 15	:16
				18 ( 4 766-60 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF		1	Reported: 2-May-22 15	:16
				18 ( 6 766-62 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labor	ratories					
Inorganic Compounds										
Chloride	496		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N		A BLUFF		1	Reported: 2-May-22 15	:16
				22 ( 0 766-64 (	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	4160		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	OVO CULEBR VONM 2103 RYAN HANEY	A BLUFF		1	Reported: 2-May-22 15	:16
				22 ( 2 766-66 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	3080		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N\				1	Reported: 2-May-22 15	:16
				22 ( 3 766-67 (\$	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor:	atories					
Inorganic Compounds										
Chloride	2720		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ber: N ger: Bf		A BLUFF		1	Reported: 2-May-22 15	:16
				22 ( 6 /66-69 (	· ·					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	atories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: NV				1	Reported: 2-May-22 15:	16
SB - 22 ( 8-9 ) H221766-70 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	atories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	2050637	AC	06-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N				1	Reported: 2-May-22 15	:16
				23 ( 0 766-74 (	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labor	atories					
Inorganic Compounds										
Chloride	6880		16.0	mg/kg	4	2050210	GM	02-May-22	4500-Cl-B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Num Project Mana	ber: N	OVO CULEBR VONM 2103 RYAN HANEY	A BLUFF		1	Reported: 2-May-22 15	:16
				23 ( 2 766-76 (	·					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labor	ratories					
Inorganic Compounds										
Chloride	4320		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Project Nun Project Mana	nber: NV				1	Reported: 2-May-22 15	:16
				23 ( 3- 766-77 (S	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	tories					
Inorganic Compounds										
Chloride	400		16.0	mg/kg	4	2050334	AC	04-May-22	4500-Cl-B	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:		Reported: 12-May-22 15:16
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### **Inorganic Compounds - Quality Control**

		Cardir	nal Lab	oratories						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2050210 - 1:4 DI Water										
Blank (2050210-BLK1)				Prepared &	Analyzed:	02-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2050210-BS1)				Prepared &	Analyzed:	02-May-22				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2050210-BSD1)				Prepared &	Analyzed:	02-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 2050334 - 1:4 DI Water										
Blank (2050334-BLK1)				Prepared &	Analyzed:	03-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2050334-BS1)				Prepared &	Analyzed:	03-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2050334-BSD1)				Prepared &	Analyzed:	03-May-22				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 2050637 - 1:4 DI Water										
Blank (2050637-BLK1)				Prepared &	Analyzed:	06-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2050637-BS1)				Prepared &	Analyzed:	06-May-22				
Chloride	432	16.0	mg/kg	400		108	80-120			

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418		Project Ni Project Ma	umber:	Novo cule Nvonm 210 Bryan han	)3	F			Reported: May-22 1	5:16
	Ino	rganic Com Cardir	-	s - Quality poratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2050637 - 1:4 DI Water										
LCS Dup (2050637-BSD1)				Prepared &	z Analyzed:	06-May-22				
Chloride	432	16.0	mg/kg	400	y	108	80-120	0.00	20	
Batch 2051123 - 1:4 DI Water										
Blank (2051123-BLK1)				Prepared &	Analyzed:	11-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2051123-BS1)	Prepared & Analyzed: 11-May-22									
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2051123-BSD1)				Prepared &	Analyzed:	11-May-22				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

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

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

### Cardinal Laboratories

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240 U

PLEASE NOTE: Lia analyses, All claims Relinquished By Sampler - UPS - Bus - Other: Relinquished By: service. In no event shall Card Delivered By: (Circle One) HBAINUP Sampler Name: Project Location: Project Name: NOUC Project #: ALO NUO NA 210 Phone #: 36/6583/26 City: Cor Project Manager: Lab I.D. FOR LAB USE ONLY Address: Company Name: 8 200 76 5 C Liabany and including those for neglige PUSCINSK 1422 B R ž à 0 Bi Loup (575) 393-2326 FAX (575) 393-2476 P N P the my > Sample I.D and any other 5 52 Corrected Temp. °C Observed Temp. °C 18pra Blu tung Date: Time: SE Offenil au 11-12 10-11 Project Owner: Fax #: 2mairi 00 2-15 State: /X 3 Son the 29-2 wer shall be de 0 under by Ca wox. including without limit 0.7 è Received By: GQ Received R (G)RAB OR (C)OMP 4 C Zip: 0 # CONTAINERS V d 81680 in Cool Intact GROUNDWATER Sample Condition less made in writing and received by Cardinal WASTEWATER things X X R RK × X X SOIL MATRIX OIL ions, loss of use, or loss of profits SLUDGE OTHER State: City: Fax #: Phone # Attn: P.O. #: Company: NOUD oi / + Con Address: ACID/BASE PRESERV CHECKED BY: XX XXXXX × × ICE / COOL any of the abov (Initials) OTHER BILL 0 within 30 FP DATE Slap 81241028 10 SAMPLING by client, its sub 1011 14/03/ 2403 1/030 14036 1×1029 2040 Turnaround Time: All Results are emailed. 1034 REMARKS: Verbal Result oun ko 1042 They want you TIME pletion of the app ction Factor -0.5°C Sent for the les o 30 uc/on C Yes Standard Please provide Email address: No 0 ¢0 Add'l Phone #: ANALYSIS Cool Intact Bacteria (only) Sample Condition REQUEST Observed Temp. റ് 6

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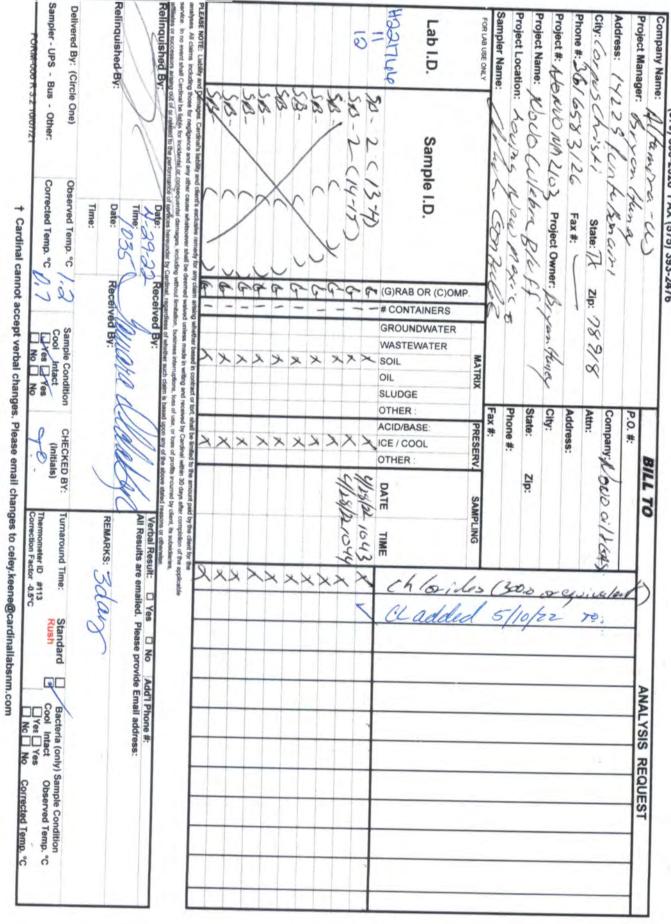
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Corrected Temp, °C



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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## Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

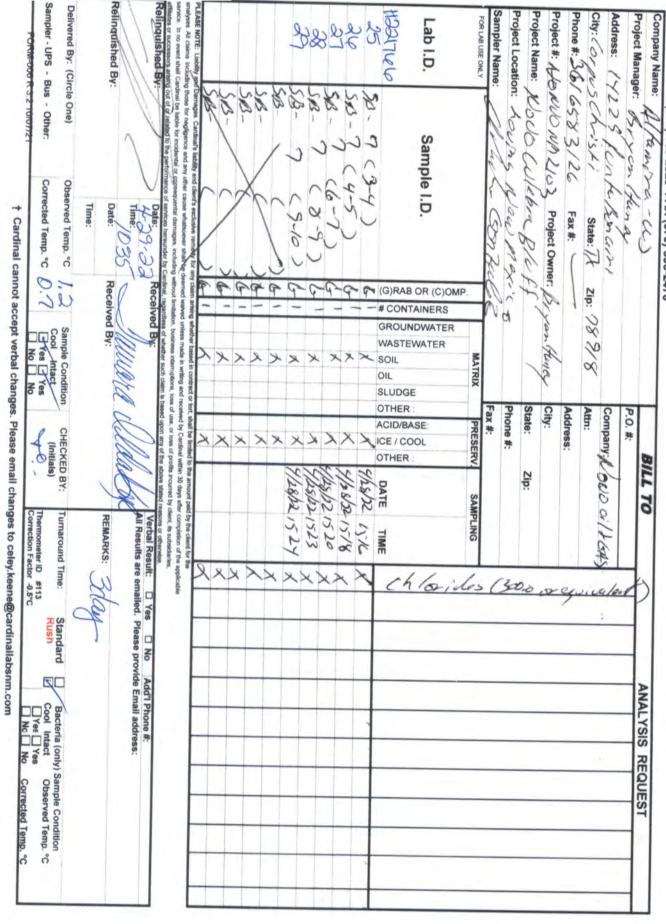
### 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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(575) 393-2326 FAX (575) 393-2476

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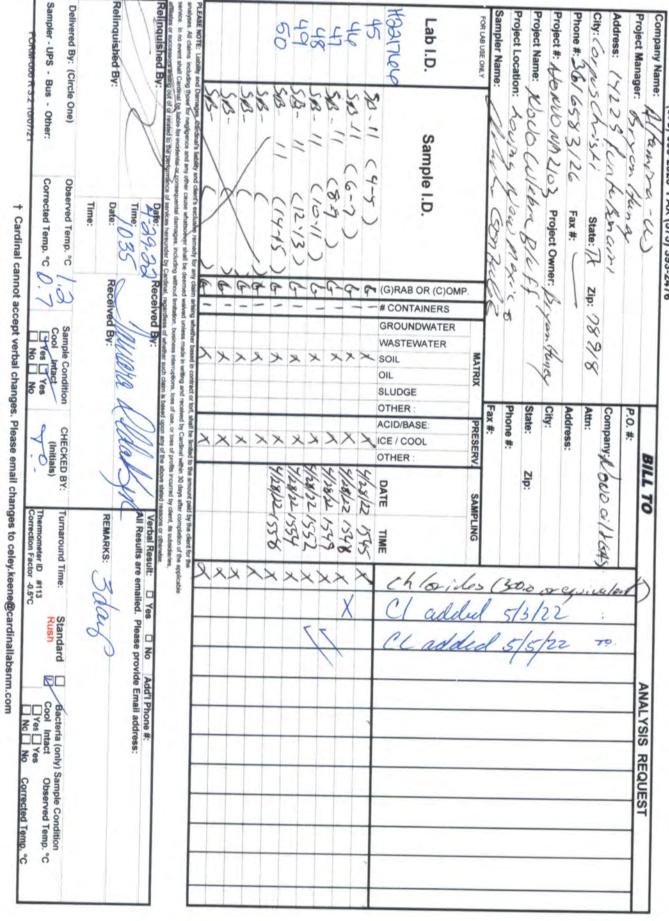
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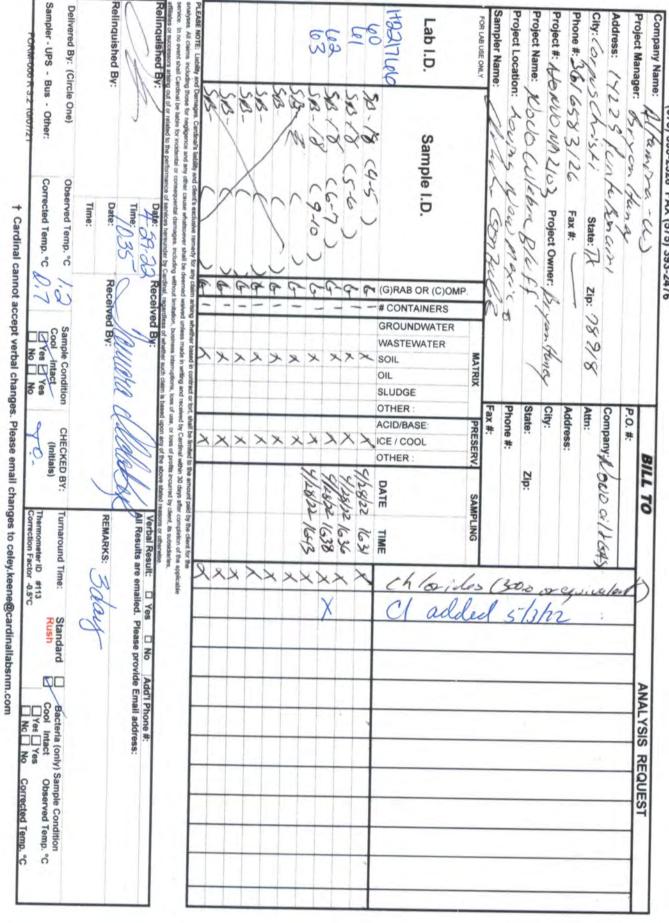


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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ple Condition	WASTEWATER         WASTEWATER         WASTEWATER         MATRIX         OIL         OIL         SLUDGE         OTHER:         Address:         PRESE         Acid/Base:         Acid/Base: <td></td>	
ECKED BY:	P.O. # P.O. # Company: Colo of / 1 Address: City: State: Zip: Phone #: Fax # Fax # Fax # Fax # Address: City: City: City: State: Zip: PRESERV SAMPLING ACID/BASE: City: State: Zip: PRESERV SAMPLING ACID/BASE: City: C	
Interconstellar of the applicable for constellar of the applicable view. It is automated. It is a substance. It is a substance. It is a substance of the applicable of the app	XXXXXXX Chlorides (300 organization)	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
d. Please prov	XX Cladded 5/3/22:	CUSTODY
Add'I Phone #: ide Email address: Bacteria (on Cool Intact	ANALYSIS	AND ANA
Phone #: nail address: Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	REQUEST	LYSIS RE
mp on °C		QUEST



### Table 1 Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method Table I - Closu	re Criteria (0-4')	Chloride 300/4500-Cl-B 600	BTEX 8260B 50	Benzene 8260B 10	TPH (low) 8015D	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M 100
Sample ID	Sample Date				_			100
•	•							
Source Area S	oil Borings							
SB-2 (0-1')	1/25/2022	8,080	<0.00148	<0.00053	<0.616	33	54.5	87.5
SB-2 (2-3')	1/25/2022	3,570	<0.00155	<0.000556	<0.648	6.36	11.2	17.56
SB-2 (3-4')	1/25/2022	2,040						
SB-2 (4-5')	1/25/2022	2,290						
SB-2 (6-7')	1/25/2022	1,570						
SB-2 (8-9')	1/25/2022	2,380						
(SB-2 Resampl	e Event) 4/28/2022	E 260						
SB-2 (1-2') SB-2 (3-4')	4/28/2022	5,360 2,640						
SB-2 (3-4 ) SB-2 (6-7')	4/28/2022	2,640						
SB-2 (0-7) SB-2 (9-10')	4/28/2022	3,200						
SB-2 (11-12')	4/28/2022	3,520						
SB-2 (11-12) SB-2 (13-14')	4/28/2022	480						
30-2 (13-14)	4/20/2022	400						
SB-3 (0-1')	1/25/2022	3,510	<0.00162	<0.000581	<0.674	62.9	57.5	120.4
SB-3 (1-2')	1/25/2022	1,860	< 0.00159	<0.000571	<0.663	94.6	77.1	171.7
SB-3 (2-3')	1/25/2022	205			0.755 (J)	14.5	7.76	23.015
. ,					( )			
SB-4 (0-1')	1/25/2022	11.2 (J)	<0.00141	<0.000506	<0.587	2.66 (J)	18.1	20.76
SB-4 (1-2')	1/25/2022	19 (J)	<0.00143	<0.000514	<0.598	3.5 (J)	9.92	13.42
SB-5 (0-1')	1/25/2022	5,620	<0.00154	<0.000552	<0.641	3.58 (J)	13.8	17.38
SB-5 (1-1.5')	1/25/2022	6,120	<0.00164	<0.00059	<0.685	5.87	19.5	25.37
SB-5 (3-4')	4/28/2022	1,800						
SB-5 (4-5')	4/28/2022	1,060						
SB-5 (6-7')	4/28/2022	768						
SB-5 (8-9')	4/28/2022	320						
SB-6 (0-1')	1/25/2022	1,270	<0.00156	<0.00056	<0.651	4.1 (J)	24.8	28.9
SB-6 (1-2')	1/25/2022	1,440	<0.00154	<0.000554	<0.644	3.47 (J)	18.4	21.87
SB-6 (3-4')	4/28/2022	1,060						
SB-6 (4-5')	4/28/2022	1,170						
SB-6 (6-7')	4/28/2022	416						
SB-6 (8-9')	4/28/2022	128						
SB-7 (0-1')	1/25/2022	3,300	0.000706 (J)	0.000706 (J)	<0.717	2.94	11.9	14.84
SB-7 (1-2')	1/25/2022	1,160	< 0.00172	< 0.000617	<0.717	<1.87	6.14	6.14
SB-7 (2-2.5')	1/25/2022	751	< 0.0018	< 0.000648	<0.753	2.97 (J)	7.78	10.75

### Table 1 Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method		Chloride 300/4500-CI-B	BTEX 8260B	Benzene 8260B	TPH (low) 8015D	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closur	e Criteria (0-4')	600	50	10	-	-	-	100
SB-7 (3-4')	4/28/2022	480						
SB-8 (0-1')	1/25/2022	14,700	0.011414 (J)	0.000734 (J)	<0.706	14.2	30.9	45.1
SB-8 (2-3')	4/28/2022	3,280						
SB-8 (3-4')	4/28/2022	2,320						
SB-8 (4-5')	4/28/2022	3,000						
SB-8 (8-9')	4/28/2022	864						
SB-8 (10-11')	4/28/2022	768						
SB-8 (12-13')	4/28/2022	208						
SB-9 (0-1')	1/25/2022	5,360	<0.00222	<0.000797	<0.926	3.35 (J)	5.68	9.03
SB-9 (1-2')	1/25/2022	4,110	<0.00182	<0.000653	<0.759	6.02	32.7	38.72
SB-9 (2-2.5')	1/25/2022	3,350						
SB-9 (3-4')	4/27/2022	1,400						
SB-9 (4-5')	4/27/2022	64						
SB-10 (0-1')	1/25/2022	39.7	<0.00188	<0.000676	<0.785	2.15 (J)	12	14.15
SB-10 (1-2')	1/25/2022	46	<0.00164	<0.000591	<0.687	3.04 (J)	19.2	22.24
SB-11 (0-1')	1/25/2022	5,980	0.00271 (J)	<0.000648	0.899 (J)	2.47 (J)	11.6	25.72
SB-11 (1-2')	1/25/2022	4,740	0.00157 (J)	<0.000654	<0.76	3.38 (J)	15.7	19.08
SB-11 (2-3')	1/25/2022	3,520						
SB-11 (3-4')	1/25/2022	2,740						
SB-11 (4-5')	4/28/2022	800						
SB-11 (6-7')	4/28/2022	1,140						
SB-11 (8-9')	4/28/2022	528						
SB-11 (10-11')	4/28/2022	592						
SB-12 (0-1')	1/26/2022	3,840	0.00135 (J)	<0.000524	<0.610	16.4	32.6	49
SB-12 (1-2)	4/28/2022	6,960						
SB-12 (2-3')	4/28/2022	3,800						
SB-12 (3-4')	4/28/2022	544						
Lateral Delinea	tion Soil Borings							
SB-1 (0-1')	1/25/2022	64.4	<0.00147	<0.000527	<0.612	<1.68	4.37	4.37
SB-1 (2-3')	1/25/2022	162	<0.00155	<0.000558	<0.648	15.3	47.3	62.6
	4/00/0000	40.7	-0.00100	-0.000007	-0 -7 4	-11.07	7.67	7.07
SB-13 (0-1')	1/26/2022	18.7	<0.00186	<0.000667	<0.774	<1.67	7.97	7.97
SB-13 (1-2') SB-13 (3-4')	1/26/2022	24.5 234	<0.00152	<0.000545	<0.635	3.2 (J)	17.1	20.3
SB-14 (0-1')	1/26/2022	11.6 (J)	<0.00139	<0.000499	<0.579	1.68 (J)	11.1	12.78

### Table 1

### Analytical Data Results Summary - Soil Assessment Samples (mg/kg) Novo Oil Gas - Culebra Bluff CTB3 Produced Water Release (Discovered November 20, 2021) Near Loving, New Mexico

Analyte Method		Chloride 300/4500-Cl-B	BTEX 8260B	Benzene 8260B	TPH (low) 8015D	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closu	ire Criteria (0-4')	600	50	10	-	-	-	100
SB-15 (0-1')	1/26/2022	13.7 (J)	<0.00142	<0.00051	<0.593	2.07 (J)	13.4	15.47
SB-15 (1-2')	1/26/2022	12.9 (J)	<0.00142	<0.00051	<0.593	2.04 (J)	14.2	16.24
SB-16 (0-1')	1/26/2022	28	0.00137 (J)	<0.000486	<0.565	2.91 (J)	18.2	21.11
SB-17 (0-1')	1/26/2022	15.8 (J)	<0.0015	<0.00054	<0.629	<1.69	10.9	10.9
SB-17 (1-2')	1/26/2022	12.3 (J)	<0.00148	<0.000532	<0.619	<1.71	11	11
SB-17 (2-3')	1/26/2022	<9.77						
SB-18 (0-1')	1/26/2022	25.5	<0.00155	<0.000557	<0.647	3.03 (J)	15.1	18.13
SB-18 (1-2')	1/26/2022	12.8 (J)	<0.00163	<0.000584	<0.680	2.21 (J)	9.26	11.47
SB-18 (2-3')	1/26/2022	12.5 (J)						
SB-18 (4-5')	4/28/2022	128						
SB-18 (6-7')	4/28/2022	496						
SB-19 (0-1')	1/26/2022	15.5 (J)	<0.00142	<0.000511	<0.593	2.87 (J)	19.7	22.57
SB-20 (0-1')	1/26/2022	<9.62	<0.00142	<0.00051	<0.592	<1.68	32.4	32.4
SB-20 (1-2')	1/26/2022	10.1 (J)	<0.00142	<0.000509	<0.591	<1.68	8.04	8.04
SB-21 (0-1')	1/26/2022	14.9 (J)	<0.00148	<0.00053	<0.616	2.15 (J)	16.8	18.95
SB-21 (1-2')	1/26/2022	16.4 (J)	<0.00143	<0.000515	<0.599	<1.69	13.2	13.2
SB-22 (0-1')	4/28/2022	4,160						
SB-22 (0-1)	4/28/2022	3,080						
SB-22 (2-3)	4/28/2022	2,720						
SB-22 (6-7')	4/28/2022	64						
SB-22 (8-9')	4/28/2022	240						
SB-23 (0-1')	4/28/2022	6,880						
SB-23 (2-3')	4/28/2022	4,320						
SB-23 (3-4')	4/28/2022	400						

Notes:

All results are in mg/kg

Closure Criteria Soils - Table I of 19.15.29.12 NMAC

TPH - Total Petroleum Hydrocarbons - includes GRO, DRO, MRO

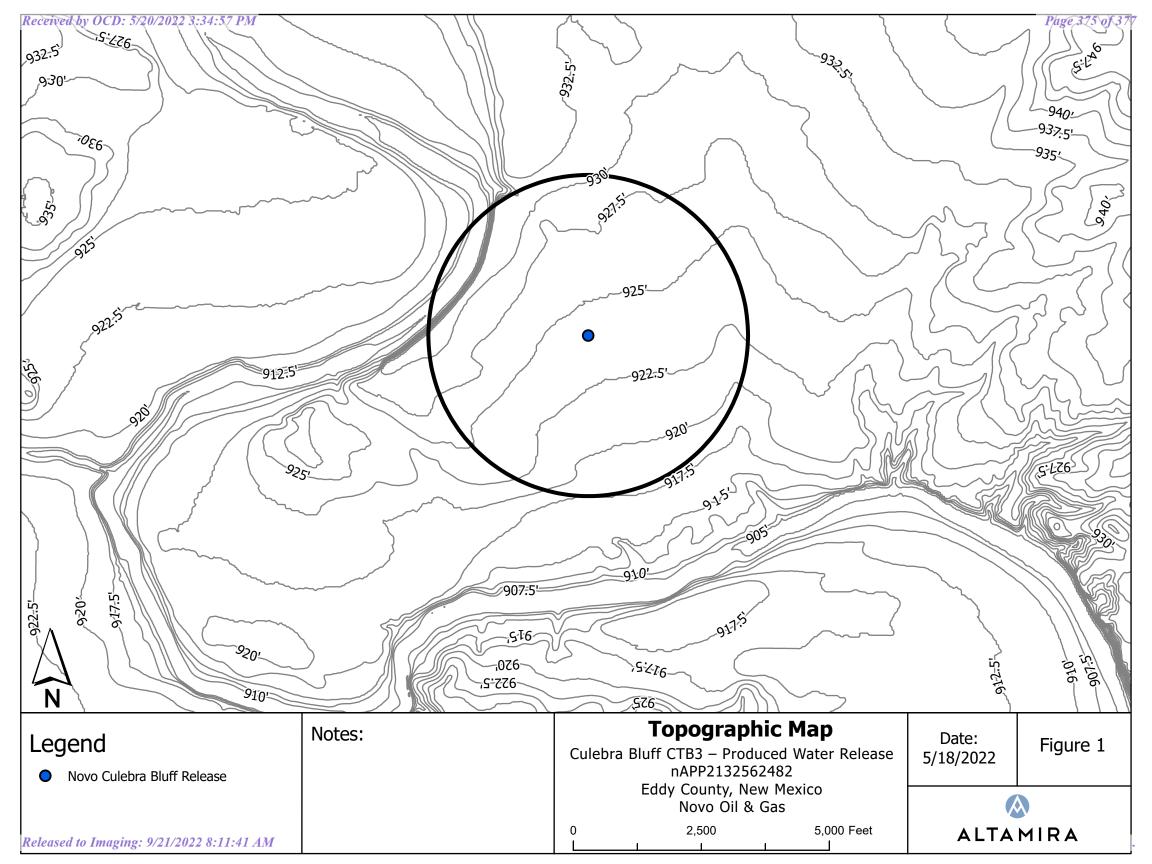
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

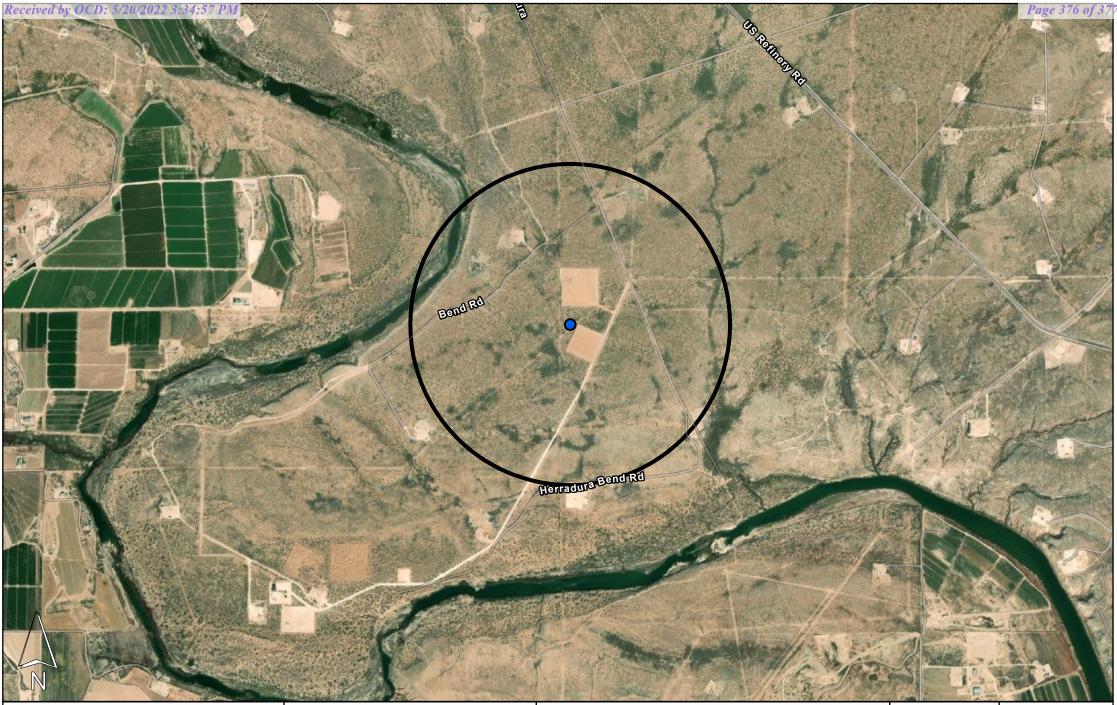
< number is the SDL (not detected above the sample detection limit)

J - result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value

Bold indicates that a COC was detected

Shading indicates that a detected result exceeded the NMOCD Table 1 Closure Criteria Levels





<ul> <li>Novo Culebra Bluff Release</li> </ul>	Notes:	<b>Site Location Map</b> Culebra Bluff CTB3 – Produced Water Release nAPP2132562482		Date: 5/18/2022	Figure 2			
			Eddy County, New Mexico Novo Oil & Gas					
	Released to Imaging: 9/21/2022 8:11:41 AM		0	2,500	5,000 Feet	ALTA	MIRA	

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

OGRID:
372920
Action Number:
108717
Action Type:
[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
rhamlet	Thank you for the site assessment. Due to the extremely shallow groundwater and sensitive nature of the release location, the site will need to be remediated to the strictest closure criteria standards. Please make sure all sample locations are fully delineated. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. A remediation plan will need to be completed and uploaded within 90 days.	9/21/2022

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Action 108717