Received by OCD: 4/25/2024 5:35:16 PM

****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Date of Spill:

Page 1 of 149

Location of spill:

							Site Soil Type:
	Average Daily Produ	iction:	BBL Oil		BBL Water		
Total Area Calculations							
Total Surface Area	width		length		wet soil depth	oil (%)	
Rectangle Area #1	100 ft	Х	22 ft	Х	2 in	0%	
Rectangle Area #2	2 0 ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #3	3 <mark>0</mark> ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #4	4 <mark>0</mark> ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #5	5 <mark>0</mark> ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #6	6 0 ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #7	7 0 ft	Х	0 ft	Х	0 in	0%	
Rectangle Area #8	3 0 ft	Х	0 ft	Х	0 in	0%	

Porosity 0.15 gal per gal

Saturated	Soil Volume Calculations:					
		<u>H2O</u>	OIL	<u>.</u>	Soil Type	Porosity
Area #1	2200 sq. ft.	367 cu. ft.		cu. ft.	Clay	0.15
Area #2	0 sq. ft.	cu. ft.		cu. ft.	Peat	0.40
Area #3	0 sq. ft.	cu. ft.		cu. ft.	Glacial Sediments	0.13
Area #4	0 sq. ft.	cu. ft.		cu. ft.	Sandy Clay	0.12
Area #5	0 sq. ft.	cu. ft.		cu. ft.	Silt	0.16
Area #6	0 sq. ft.	cu. ft.		cu. ft.	Loess	0.25
Area #7	0 sq. ft.	cu. ft.		cu. ft.	Fine Sand	0.16
Area #8	0 sq. ft.	cu. ft.		cu. ft.	Medium Sand	0.25
Total Solid/Liquid Volume:	2,200 sq. ft.	367 cu. ft.		cu. ft.	Coarse Sand	0.26
					Gravely Sand	0.26
Estimate	d Volumes Spilled				Fine Gravel	0.26
		<u>H2O</u>	OIL	<u>.</u>	Medium Gravel	0.25
Liqu	id in Soil:	9.8 BBL	0.0	BBL	Coarse Gravel	0.18
Liquid Re	covered :	<u>0.0</u> BBL	<u>0.0</u>	BBL	Sandstone	0.25
					Siltstone	0.18
S	pill Liquid	9.8 BBL	0.0	BBL	Shale	0.05
Total Sp	bill Liquid:	9.8			Limestone	0.13
					Basalt	0.19
Recov	vered Volumes				Volcanic Tuff	0.20
Estimated oil recovered:	0.0 BBL				Standing Liquids	
Estimated water recovered:	0.0 BBL					

Page 2 of 149

Remediation Response & Reclamation Closure Report Incident ID No. nAPP2304339443 Novo Oil & Gas – Rana Salada Pad J - Produced Water Release Discovery Date: February 11, 2023 Eddy County, New Mexico

> Prepared for: Novo Oil & Gas Northern Delaware, LLC Permian Resources Operating, LLC 300 N. Marienfeld St., Suite 1000 Midland, Texas 79701

> > Prepared By:

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

April 08, 2024



Released to Imaging: 6/4/2024 10:45:10 AM

Table of Contents

LIST	OF FIGU	JRESII
LIST	OF TAB	LES
LIST C	OF APP	ENDICESII
ACRO	NYMS	AND ABBREVIATIONSII
1.0	INTRO	DUCTION1
	1.1	RELEASE DETAILS AND INITIAL RESPONSE1
	1.2	NOTIFICATION1
	1.3	PROJECT OBJECTIVES2
	1.4	REGULATORY FRAMEWORK
2.0	STAN	DARD OF CARE, LIMITATIONS, & RELIANCE2
	2.1	STANDARD OF CARE2
	2.2	ADDITIONAL LIMITATIONS2
3.0	RECE	PTOR AND WATER SOURCES SURVEY2
	3.1	WELLHEAD PROTECTION DISCUSSION2
	3.2	SIGNIFICANT WATER SOURCE DISCUSSION
	3.3	DETERMINATION OF DEPTH TO GROUNDWATER
4.0	REME	DIATION4
	4.1	CONFIRMATION SOIL SAMPLING AND ANALYSIS PLAN4
	4.2	SOIL REMEDIATION ACTIVITIES4
	4.3	WASTE MANAGEMENT6
5.0	DATA	RESULTS & EVALUATION6
	5.1	CONFIRMATION SOIL SAMPLING RESULTS6
		5.1.1 Chlorides
		5.1.2 TPH
		5.1.3 BTEX
	5.2	FINAL DATA EVALUATION7
6.0	REST	ORATION & RECLAMATION7
	6.1	RESTORATION AND RECLAMATION ACTIVITIES7
7.0	CON	CLUSIONS7

LIST OF FIGURES

- Figure 1 Topographic Map
- Figure 2 Site Location Map
- Figure 3 On-Site Response Action & Sample Grid Map

LIST OF TABLES

- Table 1Soil Analytical Data Post Excavation Soil Samples (mg/kg)
- Table 2Soil Analytical Data Soil Borrow Area (mg/kg)

LIST OF APPENDICES

- Appendix A Notification and Agency Correspondence
- Appendix B Photographic Documentation
- Appendix C Depth to Groundwater Documentation
- Appendix D Field Documentation
- Appendix E Waste Management Documentation
- Appendix F Laboratory Analytical Data Reports

ACRONYMS AND ABBREVIATIONS

- Altamira Altamira-US, LLC
- Novo Oil & Gas Northern Delaware, LLC
- Permian Resources Permian Resources Operating, LLC
- bgs below ground surface
- mg/Kg milligram per kilogram
- NMOCD New Mexico Oil Conservation District
- BLM Bureau of Land Management
- TPH Total Petroleum Hydrocarbons
- BTEX Benzene, Toluene, Ethylbenzene, Xylenes



1.0 INTRODUCTION

Permian Resources Operating, LLC (Permian Resources/Novo Oil & Gas Northern Delaware, LLC (Novo Oil & Gas) (OGRID No. 372920) operate multiple produced water pipelines within an established right-of-way (ROW). The ROW and associated produced water pipelines collect and transport produced water from various locations and stations that pump to the Rana Salada Pad J location. The Rana Salada Pad J Site is located in field name Purple Sage – Wolfcamp, T23S, R28E, Section 1, in Eddy County, New Mexico. On February 11, 2023, field personnel for Novo Oil & Gas discovered a release of produced water from a hole in a valve connected to a frac tank. The frac tank and point of release is located on the operational pad area. The Site is located on property owned by the BLM. The release area is located approximately 1.7 miles northwest of the intersection of Highway 605 and Highway 31, latitude 32.342268, longitude W-104.048758 (Figure 1 and Figure 2). This Remediation Response & Reclamation Closure Report has been prepared to document response actions and site closure efforts.

1.1 Release Details and Initial Response

On February 11, 2023, at approximately 8:00 am a release of produced water occurred as a result of a hole in a valve that connected to an onsite frac tank. Approximately 10 barrels of produced water was released onto the ground on the Site around the temporary frac tanks. Novo estimated the recovery of approximately 8 barrels of produced water. The Site and 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 produced water. The facility is manned 24-hours per day. Once identified, the release was stopped, and the valve was temporarily blinded until final replacement. The release occurred entirely on the active operational pad area covered with approximately 1-1.5 feet of caliche base material. The release area covered an approximate surface area of 1,952 square feet.

The release volume was calculated based on visual observation of the leaking valve and the extent of water observed on the ground surface. The calculated volume of the release was 10 barrels.

1.2 Notification

Based on the quantity of produced water released (10 barrels) being less than 25 barrels, the release was determined to be a minor release per 19.15.29.7.A NMAC. Notification was provided by Bryan Haney of Altamira by phone and email to the New Mexico Oil Conservation District (NMOCD) and BLM on February 12, 2023. The initial online release notification C-141 was submitted to the NMOCD on February 12, 2023. The OCD issued incident ID# nAPP2304339443 and approval dated February 12, 2023.

The C-141 Release Notification Form was submitted to the online portal on February 12, 2023 **(Appendix A)**.



1.3 **Project Objectives**

The project objectives were to: 1) conduct release cleanup efforts, 2) physically remove affected soil containing constituent concentrations that exceed the NMOCD Closure Criteria with groundwater greater than 51 feet, and 3) restore and reclaim the remediated areas.

1.4 Regulatory Framework

The Site is subject to environmental regulatory oversight by the NMOCD. Notification and response action activities were conducted in accordance with guidelines outlined in 19.15.29 NMAC. The release occurred on property owned by the BLM. Novo will provide all documentation and this Remediation Response & Reclamation Site Closure Report to the BLM.

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 wells, 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. Several environmental soil borings were identified, but have been plugged and abandoned. The environmental soil borings were associated with former Novo release sites and plugging reports have been submitted to the State Engineer's Office.

The BLM indicated based on their search that the Site area is situated within a medium karst environment.

There are no sensitive receptors, wetlands, or known subsurface mines within 300 feet of the Site.

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 0.9 miles southwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 3.0 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

3.3 Determination of Depth to Groundwater

Soil boring SB-11 was installed in April 2022 on an adjacent Site just west of the Rana Salada release area (Hades North Loop Site). Soil boring SB-11 was advanced to a depth of 51-feet below ground surface. The purpose of advancing soil boring SB-11 to 51-feet was to determine if groundwater was present below 51-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed. During advancement of soil boring SB-11, groundwater (saturation) was not encountered. The borehole was advanced to 51 feet below ground surface and allowed to stay open for a period of time to monitor for the presence of groundwater. The non-presence of groundwater was verified with an electronic water level probe. The soil boring log and a figure depicting SB-11 and Rana Salada Pad J are provided in **Appendix C**.

Based on the lines of evidence provided above, groundwater is not present from the surface to 51-feet below ground surface in the area of the release. Based on this site-specific information, analytical data results for soil deeper than four feet will be compared to Closure Criteria for Soils based on groundwater encountered at depths greater than 51 feet below ground surface. This includes comparison of soil sample results below four feet to cleanup standards for chlorides to 10,000 mg/kg, total TPH to 2,500 mg/kg and TPH C6 – C28 less than 1,000 mg/kg.

The NMOCD approved the depth to groundwater determination and site characterization in an email dated November 9, 2022 (Appendix C).



4.0 **REMEDIATION**

Remediation efforts associated with the release at Rana Salada Pad J occurred during two different time periods due to the temporary use of 10 frac tanks within the release area. Initial remediation efforts were conducted between February 12, 2023 and February 27, 2023 in the main release area that excluded the immediate area of the 10 temporary frac tanks used for managing produced water. Final remediation and reclamation efforts were conducted between March 18, 2024, and April 05, 2024 in the area of the former 10 frac tanks and PJN-9.

Based on the volume of the release, Novo determined the best course of action was to move directly to remediation of the affected soil located on Rana Salada Pad J. Affected soil was mechanically and hydro-excavated and loaded into trucks for transport and disposal. Confirmation soil sampling was conducted to determine the effectiveness of soil remediation efforts. Details regarding the affected soil remediation and post excavation confirmation soil sampling are provided below.

4.1 Confirmation Soil Sampling and Analysis Plan

Confirmation soil samples collected post excavation were analyzed by Cardinal Laboratories in Hobbs, New Mexico, accredited by the National Environmental Laboratory Accreditation Program (NELAP) for environmental sample analysis requirements. The sampling program and laboratory methods used for the analysis for the project are listed in the following table. Altamira utilized the Oil Conservation Commission guidance and regulations under Title 19, Chapter 15, Part 29 to address the release and constituents of concern. The executed chain-ofcustody documents and laboratory reports are provided in **Appendix F.**

Sample Media	Analysis	Laboratory Method
Soil	Total Petroleum Hydrocarbons (TPH)	8015M
Soil	Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	8260B
Soil	Chlorides	4500-CI-B

4.2 Soil Remediation Activities

Email notification of sampling for the initial remediation effort was provided to the NMOCD and BLM on February 12, 2023. Online Notification (C-141N) was prepared and submitted on March 13, 2024, for the final remediation and sampling effort under and adjacent to the former frac tank



area. Details regarding the affected soil remediation and post excavation confirmation soil sampling are provided below.

During February 2023 and March-April 2024, Novo/Permian Resources conducted soil remediation and reclamation activities at the release Site. The visible release footprint was irregular shaped and extended within the operational pad area generally to the north, south, and east of the point of release. A GPS grade survey system was used to identify the approximate boundary of the release area in relation to the adjacent pad area and active equipment and pipelines. A grid system was established to identify the excavation areas and 200-square foot confirmation soil sample grid areas. The excavation and sample grids were identified and marked using GPS and are depicted on **Figure 3**. The sample grids were assigned a unique grid ID that ties to the analytical data table and figure. The Site ground surface consisted of imported crushed caliche base material ranging in depth from one to 1.5 feet. No vegetation was present on the operational pad area.

Rouge Field Services conducted the initial soil excavation in the larger portion of the release area. On March 18, 2024, Standard Safety acquired onsite remediation responsibilities and completed the remediation and reclamation process on April 05, 2024. Soil remediation was conducted using mechanical and hydro-excavation soil removal methods. The upper four feet of non-wasting soil material was evaluated based on the strictest cleanup levels established by the NMOCD (refer to **Table 1**). Soil below four feet was evaluated based on NMOCD standards for depth to water greater than 51 feet below ground surface. This evaluation was presented and approved by the NMOCD (November 09, 2022). Confirmation soil sampling was conducted to determine the effectiveness of soil remediation efforts. Site photographs are provided in **Appendix B**. Field documentation is provided in **Appendix D**. Excavated soil was either stockpiled or direct loaded to trucks. Water and saturated soils derived from hydro-excavation were placed into a plastic lined and bermed area and allowed to dry prior to transport and disposal.

Following excavation at each grid, confirmation soil samples were collected and submitted to Cardinal Laboratories for analysis. If analytical data results showed a chemical constituent exceeded the Closure Criteria Level, soil in that particular grid area (floor or side-wall) was further excavated and resampled. Laboratory analysis for soil samples for grids that were further excavated were only analyzed for those chemical constituents that previously exceeded the Closure Criteria level in the previous depth interval. This process continued until the concentration of all targeted chemical constituents were below the respective Closure Criteria levels for soils in the upper four feet and below four feet.

Confirmation floor and side-wall soil samples were collected within each 200 square foot (or less) grid and consisted of a 5-point composite sample (generally one from the center and one outward near each corner area). Note that grids facing the former frac tanks were defined laterally by remediation for incident ID: nAPP2222756518; thus defining the side-wall on those sides. This work was conducted during March-April 2024 (refer to **Figure 3** showing the remediation area adjacent to grids that were backfilled with clean fill materials in March-April 2024).

Analytical results for each confirmation grid sample were evaluated to the most stringent criteria per *Table I – Closure Criteria for Soils Impacted by a Release* in the upper 4 feet of soil profile. Soil below four feet was evaluated based on NMOCD standards for depth to water greater than 51 feet below ground surface. Analytical data results are presented on **Table 1**.



4.3 Waste Management

Excavated soil was loaded into trucks for transport and disposal at R360 Environmental Solutions, LLC – Halfway Facility (NM1-006) located at 6601 Hobbs Highway US 62/180 mile marker 66 between Carlsbad and Hobbs, New Mexico; and LeaLand, LLC disposal facility located at mile marker 64 US Highway 62/180 between Carlsbad and Hobbs, New Mexico (Permit Number WM-01-035 – New Mexico). Manifests for affected soil are provided in **Appendix E**.

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. Depth to groundwater near the site was investigated and determined to be greater than 51 feet below ground surface. The most stringent closure criteria action levels were utilized to evaluate analytical results for remediation in the 0-4' soil interval. Closure criteria for soils located below four feet were utilized to evaluate soil sample results below four feet. Analytical results are provided in **Table 1** and Laboratory Analytical Data Reports are provided in **Appendix F**.

As previously described, work and confirmation soil sample grids and side-walls were measured and marked on grid areas (less than 200 square feet). The overall grid area was set-up in a conservative manner so that grids included known and suspected affected soil areas, but also overlapped into known unaffected soil areas. Excavation and confirmation sampling grids were measured and maintained using a GPS grade survey unit to ensure accuracy and consistency. The remediation area and associated sample grids are depicted on **Figure 3**.

5.1 Confirmation Soil Sampling Results

5.1.1 Chlorides

All confirmation soil samples were analyzed for chlorides to determine completion of soil remediation. Analytical results showed chloride results in the upper four feet were remediated to the Closure Criteria of 600 mg/kg. Chloride results below the upper four feet were remediated to the Closure Criteria of 10,000 mg/kg. Side-wall samples PJN-9 Sidewall-4, Sidewall-5A, and Sidewall-6 were collected from 4-8 feet below ground surface since soil in the adjacent grid of the side-wall was clean backfill material. **Remediation of chlorides in soil has been completed.**

5.1.2 TPH

TPH was analyzed on all initial confirmation soil samples. Analytical results showed TPH was detected in multiple confirmation soil samples with all but one (PJN-9) being below the applicable Closure Criteria. Soil at grid area PJN-9 was extended to 8-feet below ground surface. Analytical results for confirmation sample PJN-9 (8-8.5') showed detected concentrations below the Closure Criteria. All other floor and side-wall confirmation soil samples exhibited either low detectable concentrations of TPH or no detectable concentrations of TPH above the laboratory reporting limit. **Remediation of TPH in soil has been completed.**

5.1.3 BTEX

BTEX was analyzed on all initial confirmation soil samples. 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. Total BTEX concentrations were



detected in seven grid samples; however, concentrations were significantly below 50 mg/kg. All remaining grids and side-walls exhibited no detectable concentrations of BTEX above the laboratory reporting limit. Benzene was not detected above the laboratory reporting limit in any of the confirmation soil samples. **Remediation of BTEX in soil has been completed.**

5.2 Final Data Evaluation

Following remediation/excavation activities to remove affected soil, confirmation soil samples were collected per the NMAC guidelines. Analytical data demonstrate remediation efforts (affected soil removal) have been completed. Final soil sample concentrations of chlorides, TPH, and BTEX in each grid and side-wall were either not detected above the laboratory reporting limit (not detected) or if detected were below all applicable Closure Criteria standards. As a result, no further response or remediation action is necessary.

6.0 **RESTORATION & RECLAMATION**

6.1 Restoration and Reclamation Activities

Following remediation activities, the excavated site area was reclaimed and restored to its original condition. Borrow areas were sampled prior to use of the material onsite. Analytical results for the soil borrow areas are provided on **Table 2**. The excavated remediation area was backfilled using native topsoil (similar to existing silty-sandy very fine-grained soil) from a nearby native soil borrow source from four feet to approximately 1.5 feet below ground surface. The top soil horizon was compacted in one foot lifts. The pad interval from approximately 1.5 feet to the surface was backfilled and compacted with crushed caliche material to reform the operational pad area. The entire remediation area was graded and contoured to promote proper drainage and eliminate erosion of the pad or native surrounding soils. Care was taken to ensure proper natural drainage to prevent erosion and transport of sediments off-site.

Since the Site is the location of active operational oil and gas activities, re-vegetation is not necessary at this time.

7.0 CONCLUSIONS

On February 11, 2023, at approximately 8:00 am a release of produced water occurred as a result of a hole in a valve that connected to an onsite frac tank. Approximately 10 barrels of produced water was released onto the ground on the Site around the temporary frac tanks. Novo estimated the recovery of approximately 8 barrels of produced water. During early 2023 and early 2024, Novo/Permian Resources conducted remediation and reclamation efforts to remove affected soil and restore the area to pre-release conditions.

Analytical data results for post excavation confirmation soil samples validate the completion of affected soil removal from the release area.

• The approximate release surface area is estimated at 1,952 square feet.



- A total of 25 confirmation composite soil samples were collected from the excavation floors and side-walls for laboratory analysis to confirm remediation effectiveness.
- Depth to groundwater at the Site is greater than 51 feet below ground surface.
- The NMOCD approved the use of higher Closure Criteria for soils below 4 feet based on depth to groundwater greater than 51 feet and site characterization information.
- Soil on-site has been remediated to chloride levels less than 600 mg/kg in the upper four feet and to levels less than 10,000 mg/kg below the upper four feet of soil.
- Final TPH and BTEX concentrations were detected below the Closure Criteria.
- Reclamation efforts have been completed on the pad.
- Seeding will not be conducted since the release occurred on the operational pad area.
- No further response action/remediation is necessary for this release Site.
- Novo/Permian Resources would respectfully like to request regulatory closure for Incident ID: nAPP2304339443.



FIGURES



Released to Imaging: 6/4/2024 10:45:10 AM







<u>0</u>.



NOVO OIL & GAS RANA SALADA - PAD J PRODUCED WATER RELEASE nAPP2304339443 EDDY COUNTY, NEW MEXICO

TABLE I							
NMOCD CLOSURE CRITERIA FOR SOILS (DEPTH TO GROUNDWATER > 51 FEET BGS)							
CHLORIDE	TPH (GRO) TPH (DRO)			TOTAL TPH	BTEX	BENZENE	
600	-		-	100	50	10	
10,000	(1,000)	2,500	50	10	
	NM (DEPT CHLORIDE 600 10,000	NMOCD CLC (DEPTH TO GF CHLORIDE TPH (G 600 - 10,000 (TAB NMOCD CLOSURE C (DEPTH TO GROUNDW CHLORIDE TPH (GRO) T 600 - 10,000 (1,000	TABLE I NMOCD CLOSURE CRITERIA F (DEPTH TO GROUNDWATER > 5' CHLORIDE TPH (GRO) TPH (DRO) 600 - - 10,000 (1,000)	TABLE I NMOCD CLOSURE CRITERIA FOR SOILS (DEPTH TO GROUNDWATER > 51 FEET BGS) CHLORIDE TPH (GRO) TPH (DRO) TOTAL TPH 600 - - 100 10,000 (1,000) 2,500	TABLE I NMOCD CLOSURE CRITERIA FOR SOILS (DEPTH TO GROUNDWATER > 51 FEET BGS) CHLORIDE TPH (GRO) TPH (DRO) TOTAL TPH BTEX 600 - - 100 50 10,000 (1,000) 2,500 50	

DATE OF RELEASE: 2/11/2023 ~10 BBLS RELEASED N 32.342268° W -104.048758°



 TABLE 1

 Soil Analytical Data – Post Excavation Soil Samples (mg/kg)

5 PM Table 1 Analytical Data Summary -Post Excavation Soil Samples (mg/kg) Novo Oil Gas - Rana Salada Pad J - Produced Water Release (02/11/2023) Incident ID: nAPP2304339443 Near Loving, Eddy County, New Mexico

Analyte Method	Chloride	BTEX	Benzene	TPH (C6-C10)	TPH (>C10-28)	TPH (>C28-36)		
		4500-CI-B	50	10	001510	0015141	00 I SIW	100
Table I - Closure Criteria $(0-4)$		10000	50	10	- 1(2 500
		10000		10				2,000
Sample ID	Sample Date							
PJN-1 (4-4.5')	2/18/2023	2,360	1.17	<0.05	18.3	219	14.9	252.2
PJN-2 (4-4.5')	2/18/2023	2,920	16.2	<0.05	124	653	51.1	828.1
PJN-3 (4-4.5')	2/18/2023	2,280	4.28	<0.05	98.1	665	39.4	802.5
PJN-4 (4-4.5')	2/18/2023	3,960	1.58	<0.05	39	389	25	453
PJN-5 (4-4.5')	2/18/2023	3,160	<0.30	<0.05	<10.0	110	<10.0	110
PJN-6 (4-4.5')	2/18/2023	496	1.72	<0.05	57	757	67.2	881.2
PJN-7 (4-4.5')	2/18/2023	544	<0.30	<0.05	<10.0	99.3	<10.0	99.3
PJN-8 (4-4.5')	2/18/2023	320	<0.30	<0.05	<10.0	64.5	<10.0	64.5
PJN-9 (4-4.5')	2/18/2023	4.560	22.9	<0.05	533	1.570	111	2214
PJN-9 (5.5-6')	2/27/2023	-	-	-	1.340	5.830	394	7564
PJN-9 (8-8 5')	3/18/2024	_	_	_	23.9	173	<10.0	196.9
PJN-10 (4-4 5')	2/18/2023	256	14.6	<0.05	198	757	47.5	1002.5
PJN-11 (4-4 5')	2/18/2023	448	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0
				0.00				
P.IN-12 (4-4 5')	2/18/2023	28	<0.30	<0.05	<10.0	28	<10.0	28
P.IN-13 (3-3 5')	2/18/2023	208	<0.30	<0.05	<10.0	25.4	<10.0	25.4
		200	-0.00	-0.00		20.4	10.0	20.4
P IN-14 (3-3 5')	2/18/2023	480	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0
	2/10/2023	400	-0.00	-0.00	-10.0	-10.0	- 10.0	-10.0
D INL 15 (4 4 5')	2/18/2022	1 220	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0
	2/10/2023	1,330	~0.30	~U.UO	×10.0	×10.0	× 10.0	>10.0
G-67 (4-4 5')	3/18/2024	600	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0
G-07 (4-4.5)	5/10/2024	000	~0.300	<u>\0.000</u>	~10.0	×10.0	~10.0	<10.0
			1		1			

PM Table 1 Analytical Data Summary -Post Excavation Soil Samples (mg/kg) Novo Oil Gas - Rana Salada Pad J - Produced Water Release (02/11/2023) Incident ID: nAPP2304339443 Near Loving, Eddy County, New Mexico

Analyte Method		Chloride 4500-Cl-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M		
Table I - Closure Criteria	a (0-4')	600	50	10	-	-	-	100		
Table I - Closure Criteria	a (4-100')	10000	50	10	1,0	000		2,500		
Sample ID	Sample Date									
PJN Sidwawll-1 (0-3')	2/18/2023	592	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0		
PJN Sidewall-2 (0-4')	2/18/2023	192	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0		
PJN Sidewall-3 (0-4')	2/18/2023	144	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0		
PJN-9 Sidewall-4 (4-8')	3/18/2024	2,080	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0		
		Grid Sidewall sampled 4-8' only - sidewall abuts grid with clean backfill from 0-4'								
PJN-9 Sidewall-5 (4-8')	3/18/2024	-	-	-	134	1,860	218	2212		
PJN-9 Sidewall-5A (4-8')	3/29/2024	3,040	<0.30	<0.05	<10.0	<10.0	<10.0	<10.0		
			Grid Sidewall sampled 4-8' only - sidewall abuts grid with clean backfill from 0-4'							
PJN-9 Sidewall-6 (4-8')	3/18/2024	1,960	<0.30	<0.05	14.8	380	24.8	419.6		
			Grid Sidewall	sampled 4-8' o	only - sidewall ab	uts grid with clea	n backfill from 0-4	!		

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

<RL - results were not detected above the Laboratory Reporting Limit

- Not analyzed

Bold indicates a detection above the Laboratory Sample Reporting Limit

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

* - Closure Criteria based on depth to groundwater greater than 51 feet below ground surface

APPROVED BY NMOCD on November 9, 2022



 TABLE 2

 Soil Analytical Data – Soil Borrow Area (mg/kg)

Table 2 Analytical Data Summary Soil Borrow Area (mg/kg) Novo Oil Gas - Rana Salada Pad-J - Produced Water Release Incident ID: nAPP2304339443 Near Loving, Eddy County, New Mexico

Analyte Method		Chloride 4500-Cl-B	BTEX 8260B	Benzene 8260B	TPH (C6-C10) 8015M	TPH (C10-28) 8015M	TPH (C28-36) 8015M	TPH 8015M
Table I - Closure Cri	iteria (0-4')	600	50	10	-	-	-	100
Table I - Closure Cri	iteria (>4')*	10,000	50	10	1,0	000	-	2,500
Sample ID	Sample Date							
Backfill-1	11/21/2022	128	<0.150	<0.025	<10.0	<10.0	<10.0	<10.0
Backfill-2	11/21/2022	32	<0.150	<0.025	<10.0	<10.0	<10.0	<10.0
								1
Backfill-1 Surface	10/31/2023	112	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0
Backfill-2 Surface	10/31/2023	320	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0

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

<RL - results were not detected above the Laboratory Reporting Limit

- Not analyzed

Bold indicates a detection above the Laboratory Sample Reporting Limit

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

* - Closure Criteria based on depth to groundwater greater than 51 feet below ground surface

APPROVED BY NMOCD on November 9, 2022



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 Page 23 of 149

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

)

Incident ID	nAPP2304339443
District RP	
Facility ID	
Application ID	185198

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): nAPP2304339443
Contact mailing address: 1001 West Wilshire Blvd., Suite 206	
Oklahoma City, OK 73116	

Location of Release Source

Latitude <u>32.342268°</u>

Longitude <u>-104.048758°</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Rana Salada – Pad J Frac Tank Release	Site Type: Produced Water Line (production)
Date Release Discovered: 02/11/2023 at 8:00 am	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	36	T22S	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): 10	Volume Recovered (bbls): 8	
	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			
The leak occurred due to a hole in the valve connected to the frac tank. The release was stopped and the valve was blinded to prevent further leaking.			
Volume Calculation – based on visual impact adjacent to frac tank			

Page 2

Oil Conservation Division

Incident ID	nAPP2304339443
District RP	
Facility ID	
Application ID	185198

Wee this a maior	If VEC for what means (a) does the means this party according this a major related?
was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	Minor event, less than 25 barrels
\Box Yes \boxtimes No	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
☐ Yes ⊠ No If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Notification was provided by Bryan Haney on February 12, 2023, at 11:30 am by phone. Notification was made to the NMOCD – Artesia Division Office (575.626.0857). A recorded message was provided on the hotline voicemail (Mike Bratcher). Email notification of the minor release was also provided by Bryan Haney to the OCD Spill Hotline (OCD.Enviro@state.nm.us) on February 12, 2023, at 11:30 am.

Email notification was provided to by Bryan Haney to the BLM on February 12, 2023 at 11:30 (Crisha Morgan and Jim Amos).

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 February 12, 2023.

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: February 12, 2023
email: <u>kshipley@novoog.com</u>	Telephone: <u>405-286-3916</u>
OCD Only	
Received by:	Date:

From:	OCDOnline@state.nm.us
To:	Bryan Haney
Subject:	The Oil Conservation Division (OCD) has approved the application, Application ID: 185494
Date:	Monday, February 13, 2023 3:29:00 PM

To whom it may concern (c/o Bryan Haney for NOVO OIL & GAS NORTHERN DELAWARE, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2304339443, with the following conditions:

• None

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Jocelyn Harimon Environmental Specialist 575-748-1283 Jocelyn.Harimon@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505



United States Department of Interior Bureau of Land Management Major Undesirable Event Report

Report Type: Initial 24-Hour ⊠ 15-Day/Final □ Other/Follow-up □								
BLM Field Office: Carlsbad, NM			State:	New Me	exico			
BLM Contact: Crisha Morgan				Date of	f this Re	port: 02/12	/2023	
Company Official Re	porting to BLM:	Kurt S	hipley and E	Bryan H	Ianey (A	ltamira)		
Operator: Novo Oil	& Gas Northern E	Delawar	e, LLC					
Date/Time of Occurre	ence: 02/11/2023	at 8:00	am	Date/T	ime BLN	M Notified:	02/12/2	11:30am
Field/Unit Name: D				Lease 1	Number:			
State: NM Co	unty: Eddy		Twp:T22S	Rng: I	R28E	Sec: 1	36	Qtr:
Latitude/ Longitude:	32.342268, -104.0	048758						
Surface Ownership: H	BLM/Private	Federa	al: 🖂	Indian:	Indian: 🗆 State: 🗆 FI			FEE 🗆
Type and Relevant l	Details of Event			1				
Oil Spill□	Oil/Water S	pill□		Gas Ve	enting□		Toxic Fluid Spill□	
Saltwater Spill⊠	Other Spill ((Specifi	c)	Blowo	ut		Fire□	
Injury 🗆	Fatality 🗆			Proper	ty Dama	ge□	Explosi	on
Nature and Cause of Minor release approx a result of a hole in a Environmental Impac Leak onto pad area a	Event: imately 10 bbl of valve connected t et: round frac tanks (a	produc to a frac	ed water. R c tank.	e lease	occurred	on the <u>Nov</u>	vo Rana	<u>Salad Pad</u> -J_ as
Time Required to Co	ntrol Event (Hour	:s):	Approxima	tely 1 h	nour	1	1 .	
Volume Discharged of	or Consumed:	,	Oil: <u>0</u> bbls		Water: <u>10</u> bbls		Gas:	mcf
Volumes Recovered:			Oil: <u>0 </u> bbls		Water: <u>8</u> bbls			
Net Volume Lost:			Oil: <u>0</u> bbl	s	Water: <u>2</u> bbls		Gas:	mcf
Action Taken to Control Event: Use vacuum truck to remove standing recoverable liquids. Use earth moving equipment to scrape and remove affected soil area								
Resulting Damage: minor surface impact to active pad area – no other damage								
Clean-Up Procedures affected soil.	: Use of vacuum	truck a	nd soil exca	vation	machine	ry to remov	e standi	ng liquids and
Cause/Extent of Perso	onal Injury: None							
Actions the operator has taken or will take to prevent a recurrence of the incident: Equipment has been repaired.								
Agency	Agency Name	ency Name		Contact Name		Date/Time		
Notification List:	NMOCD	OCD		Mike Bratcher (email)		02/12/2	023 at 11:30am	
(Federal/State/	NMOCD			Online Portal – Notify 02/1		$\frac{02}{12/2}$	023 at 11:50am	
Local):	BLM			Jım Amos/Crisha Morgan (email)		02/12/2	023 at 11:30 am	

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.

None associated with this equipment on Pad J.

From:	Bryan Haney
To:	Morgan, Crisha A; Amos, James A; BLM_NM_CFO_REALTY_Spill
Cc:	Kurt Shipley; Dara Tatum
Subject:	Minor Release Notification - Novo Rana Salada Pad-J Frac Tank Release (02/11/2023)
Date:	Sunday, February 12, 2023 11:30:00 AM
Attachments:	image001.png

Crisha and Jim,

Please accept this email as written notification regarding a Minor release that occurred at Novo Rana Salada Pad-J. The release occurred as a result of a hole in the valve connected to a frac tank. The release was discovered at approximately 8:00am on February 11, 2023. Novo personnel estimate approximately 10 bbl of produced water released to the adjacent ground surface. Approximately 8 bbl of produced water was recovered. The area is being over excavated to the best extent practicable. Soil samples will be collected on February 13-14, 2023.

Novo will submit the C-141 online and submit the MUE to the BLM.

If you have any questions please let Kurt or I know.

Thank you both,

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

altamira-us.com



3)

Mike and Rob,

Please accept this email as written notification regarding a Minor release that occurred at Novo Rana Salada Pad-J. The release occurred as a result of a hole in the valve connected to a frac tank. The release was discovered at approximately 8:00am on February 11, 2023. Novo personnel estimate approximately 10 bbl of produced water released to the adjacent ground surface. Approximately 8 bbl of produced water was recovered. The area is being over excavated to the best extent practicable. Soil samples will be collected on February 13-14, 2023.

Novo will submit the C-141 online and submit the MUE to the BLM.

If you have any questions please let Kurt or I know.

Thank you both,

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

altamira-us.com



From:	OCDOnline@state.nm.us
To:	Bryan Haney
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 185198
Date:	Sunday, February 12, 2023 11:57:59 AM

To whom it may concern (c/o Bryan Haney for NOVO OIL & GAS NORTHERN DELAWARE, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2304339443,

with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2304339443, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number. If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From:	Hamlet, Robert, EMNRD
To:	Bryan Haney
Cc:	Kurt Shipley; Dara Tatum; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Final Extension) Novo Oil and Gas - Pad J Releases - (Due to Frac Tanks)
Date:	Monday, April 10, 2023 10:49:34 AM
Attachments:	image003.png

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to **July 10th, 2023** is approved. This will be the **final extension** for these releases. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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: Monday, April 10, 2023 8:31 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>

Subject: [EXTERNAL] Novo Oil and Gas - Pad J Releases - Time Extension Request (Due to Frac Tanks)

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

Rob and Mike,

Per your suggestion in January, 2023, <u>Novo is requesting another time extension/time deferment for</u> <u>this Site due to the (10) frac tanks remaining onsite</u>. In your last correspondence, you had suggested we send a request each 90-days until the frac tanks are removed and we can complete remediation efforts immediately around and under the frac tanks.

To-date, there are actually two releases that have occurred at this site associated with this equipment.

The original release nAPP2222756518 that occurred on 9/13/0222, and

The more recent release nAPP2304339443 that occurred on 2/11/2023

Novo has completed as much of the soil remediation as possible associated with both releases. Novo is working on a permanent solution to this situation.

If you have any questions or need further information, please let us know.

Thank you

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



From:	Bryan Haney
To:	Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc:	Kurt Shipley; Dara Tatum
Subject:	Novo Oil and Gas - Pad J Releases - Time Extension Request (Due to Frac Tanks)
Date:	Monday, April 10, 2023 9:30:00 AM
Attachments:	image001.png

Rob and Mike,

Per your suggestion in January, 2023, <u>Novo is requesting another time extension/time deferment for</u> <u>this Site due to the (10) frac tanks remaining onsite</u>. In your last correspondence, you had suggested we send a request each 90-days until the frac tanks are removed and we can complete remediation efforts immediately around and under the frac tanks.

To-date, there are actually two releases that have occurred at this site associated with this equipment.

The original release nAPP2222756518 that occurred on 9/13/0222, and The more recent release nAPP2304339443 that occurred on 2/11/2023

Novo has completed as much of the soil remediation as possible associated with both releases. Novo is working on a permanent solution to this situation.

If you have any questions or need further information, please let us know.

Thank you

Bryan Haney, TX P.G

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



From:	Hamlet, Robert, EMNRD
То:	Bryan Haney
Cc:	Kurt Shipley; Dara Tatum; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Approval) Incident #NAPP2222756518 and NAPP2304339443
Date:	Tuesday, May 9, 2023 12:12:41 PM
Attachments:	image003.png

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to **January 10th, 2024** is approved. Keep us updated on the facility construction timeline. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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, May 9, 2023 10:52 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>; Bratcher, Michael,
EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Incident #NAPP2222756518 and NAPP2304339443 - REQUEST FOR
EXTENSION (Both Incident IDs)

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

Rob, Mike, and Jocelyn,

Thank you for taking the time to talk with Kurt and I this morning regarding the situation at Pad-J. Per your request, we are providing this email **to request a time extension of six (6) months** to complete remediation activities associated with both incidents.

I have attached a Response Action Figure for each incident that shows the excavation and sample gridding that has been completed. The figures also depict areas where the grid or side-wall failed.

For the areas previously excavated, those in green have meet Closure Criteria. Soils in the upper 4 feet meet standards using Closure Criteria for the 0-4' interval. Soils below 4 feet have met Closure Criteria standards for groundwater greater than 51 feet criteria. All excavated soil has been transported and disposed of at the R360 facility near Hobbs, NM. The remaining area underneath the frac tanks will be remediated and sampled as soon as they are removed from service.

As Kurt discussed, NOVO received the permit from the BLM this week to construct the new facility. Novo will proceed with final planning stages, order equipment, and initiate construction for the facility. Once this is complete, the frac tanks and associated piping, pumps, and ancillary equipment will be removed from the Site. This will then allow Novo to complete the remaining remediation underneath the frac tank area and submit a final Closure Report for each incident.

If you have any questions regarding remediation completed to-date or current/planned operations please reach out to me or Kurt and we would be happy to provide.

Thank you again for your time and help,

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@emnrd.nm.gov</u>>
Sent: Monday, April 10, 2023 10:49 AM
To: Bryan Haney <<u>Bryan.Haney@altamira-us.com</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>; Bratcher, Michael,
EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD
<<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>
Subject: (Final Extension) Novo Oil and Gas - Pad J Releases - (Due to Frac Tanks)

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to **July 10th, 2023** is approved. This will be the **final extension** for these releases. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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: Monday, April 10, 2023 8:31 AM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD
<<u>mike.bratcher@emnrd.nm.gov</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>
Subject: [EXTERNAL] Novo Oil and Gas - Pad J Releases - Time Extension Request (Due to Frac Tanks)

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

Rob and Mike,

Per your suggestion in January, 2023, <u>Novo is requesting another time extension/time deferment for</u> <u>this Site due to the (10) frac tanks remaining onsite</u>. In your last correspondence, you had suggested we send a request each 90-days until the frac tanks are removed and we can complete remediation efforts immediately around and under the frac tanks.

To-date, there are actually two releases that have occurred at this site associated with this equipment.

The original release nAPP2222756518 that occurred on 9/13/0222, and The more recent release nAPP2304339443 that occurred on 2/11/2023

Novo has completed as much of the soil remediation as possible associated with both releases. Novo is working on a permanent solution to this situation.

If you have any questions or need further information, please let us know.

Thank you

Bryan Haney, TX P.G

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


From:	Bryan Haney
To:	Hamlet, Robert, EMNRD
Cc:	Kurt Shipley; Dara Tatum; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	RE: Incident #NAPP2222756518 and NAPP2304339443 - REQUEST FOR EXTENSION (Both Incident IDs)
Date:	Tuesday, May 9, 2023 11:52:00 AM
Attachments:	Novo Pad J Response Action Figure - nAPP2304339443.pdf
	image001.png
	Novo Pad J Response Action Figure - nAPP2222756518.pdf

Rob, Mike, and Jocelyn,

Thank you for taking the time to talk with Kurt and I this morning regarding the situation at Pad-J. Per your request, we are providing this email **to request a time extension of six (6) months** to complete remediation activities associated with both incidents.

I have attached a Response Action Figure for each incident that shows the excavation and sample gridding that has been completed. The figures also depict areas where the grid or side-wall failed. For the areas previously excavated, those in green have meet Closure Criteria. Soils in the upper 4 feet meet standards using Closure Criteria for the 0-4' interval. Soils below 4 feet have met Closure Criteria standards for groundwater greater than 51 feet criteria. All excavated soil has been transported and disposed of at the R360 facility near Hobbs, NM. The remaining area underneath the frac tanks will be remediated and sampled as soon as they are removed from service.

As Kurt discussed, NOVO received the permit from the BLM this week to construct the new facility. Novo will proceed with final planning stages, order equipment, and initiate construction for the facility. Once this is complete, the frac tanks and associated piping, pumps, and ancillary equipment will be removed from the Site. This will then allow Novo to complete the remaining remediation underneath the frac tank area and submit a final Closure Report for each incident.

If you have any questions regarding remediation completed to-date or current/planned operations please reach out to me or Kurt and we would be happy to provide.

Thank you again for your time and help,

Bryan

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



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Sent:** Monday, April 10, 2023 10:49 AM To: Bryan Haney <Bryan.Haney@altamira-us.com>

Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov> Subject: (Final Extension) Novo Oil and Gas - Pad J Releases - (Due to Frac Tanks)

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to **July 10th, 2023** is approved. This will be the **final extension** for these releases. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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</pre>
Sent: Monday, April 10, 2023 8:31 AM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>

Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>

Subject: [EXTERNAL] Novo Oil and Gas - Pad J Releases - Time Extension Request (Due to Frac Tanks)

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

Rob and Mike,

Per your suggestion in January, 2023, <u>Novo is requesting another time extension/time deferment for</u> <u>this Site due to the (10) frac tanks remaining onsite</u>. In your last correspondence, you had suggested we send a request each 90-days until the frac tanks are removed and we can complete remediation efforts immediately around and under the frac tanks.

To-date, there are actually two releases that have occurred at this site associated with this equipment.

The original release nAPP2222756518 that occurred on 9/13/0222, and The more recent release nAPP2304339443 that occurred on 2/11/2023

Novo has completed as much of the soil remediation as possible associated with both releases. Novo is working on a permanent solution to this situation.

If you have any questions or need further information, please let us know.

Thank you

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



From:	Bryan Haney				
To:	Hamlet, Robert, EMNRD				
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD; Montgomery Floyd; Kevin Hart				
Subject:	RE: (Extension Approval) Incident #NAPP2222756518 and NAPP2304339443 (Pad J Sites)				
Date:	Tuesday, January 9, 2024 10:21:00 AM				
Attachments:	Novo Pad J Response Action Figure - nAPP2304339443.pdf				
	image001.png				
	Novo Pad J Response Action Figure - nAPP2222756518.pdf				

Rob, Mike, Jennifer, and Jocelyn, Rob, Mike, and Jocelyn,

As you may be aware, the Novo Oil and Gas assets were purchased by Earthstone in 2023, and then both were purchased by Permian Resources in late 2023. With the transfer of assets, the original timeline for installation of a permanent water tank at the Pad-J Site has been put on hold. However, Permian Resource has indicated that they do plan to install the new water tank in 2024. In the meantime, the 10 frac tanks currently being used at the site remain in use and are vital to water management operations. As discussed in our team call in 2023, there was an agreement that the frac tanks were necessary and remediation would be best fit following the removal of the 10 frac tanks.

On behalf of Permian Resources, we are providing this email <u>to request a time extension of eight</u> (8) months to complete remediation activities associated with both incidents. It is anticipated that the new water tank can be constructed and the frac tanks removed during this period of time (permits and construction dependent).

I have attached a Response Action Figure for each incident that shows the excavation and sample gridding that has been completed. The figures also depict areas where the grid or side-wall failed. For the areas previously excavated, those in green have meet Closure Criteria. Soils in the upper 4 feet meet standards using Closure Criteria for the 0-4' interval. Soils below 4 feet have met Closure Criteria standards for groundwater greater than 51 feet criteria. All excavated soil has been transported and disposed of at the R360 facility near Hobbs, NM. The remaining area underneath the frac tanks will be remediated and sampled as soon as they are removed from service.

If you would like any further information of think that a team call would be helpful please let us know. Thank you for your consideration on this project.

Bryan

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



Released to Imaging: 6/4/2024 10:45:10 AM

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, May 9, 2023 12:13 PM
To: Bryan Haney <Bryan.Haney@altamira-us.com>
Cc: Kurt Shipley <kshipley@novoog.com>; Dara Tatum <dtatum@novoog.com>; Bratcher, Michael,
EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: (Extension Approval) Incident #NAPP2222756518 and NAPP2304339443

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to **January 10th, 2024** is approved. Keep us updated on the facility construction timeline. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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: Tuesday, May 9, 2023 10:52 AM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>; Bratcher, Michael,
EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD
<<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>
Subject: [EXTERNAL] RE: Incident #NAPP2222756518 and NAPP2304339443 - REQUEST FOR
EXTENSION (Both Incident IDs)

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

Rob, Mike, and Jocelyn,

Thank you for taking the time to talk with Kurt and I this morning regarding the situation at Pad-J. Per your request, we are providing this email **to request a time extension of six (6) months** to complete remediation activities associated with both incidents.

I have attached a Response Action Figure for each incident that shows the excavation and sample gridding that has been completed. The figures also depict areas where the grid or side-wall failed. For the areas previously excavated, those in green have meet Closure Criteria. Soils in the upper 4 feet meet standards using Closure Criteria for the 0-4' interval. Soils below 4 feet have met Closure Criteria standards for groundwater greater than 51 feet criteria. All excavated soil has been transported and disposed of at the R360 facility near Hobbs, NM. The remaining area underneath the frac tanks will be remediated and sampled as soon as they are removed from service.

As Kurt discussed, NOVO received the permit from the BLM this week to construct the new facility. Novo will proceed with final planning stages, order equipment, and initiate construction for the facility. Once this is complete, the frac tanks and associated piping, pumps, and ancillary equipment will be removed from the Site. This will then allow Novo to complete the remaining remediation underneath the frac tank area and submit a final Closure Report for each incident.

If you have any questions regarding remediation completed to-date or current/planned operations please reach out to me or Kurt and we would be happy to provide.

Thank you again for your time and help,

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@emnrd.nm.gov</u>>
Sent: Monday, April 10, 2023 10:49 AM
To: Bryan Haney <<u>Bryan.Haney@altamira-us.com</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>; Bratcher, Michael,
EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD
<<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>
Subject: (Final Extension) Novo Oil and Gas - Pad J Releases - (Due to Frac Tanks)

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Your request for an extension to July 10th, 2023 is approved. This will be the final extension for

these releases. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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: Monday, April 10, 2023 8:31 AM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD
<<u>mike.bratcher@emnrd.nm.gov</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>

Subject: [EXTERNAL] Novo Oil and Gas - Pad J Releases - Time Extension Request (Due to Frac Tanks)

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

Rob and Mike,

Per your suggestion in January, 2023, <u>Novo is requesting another time extension/time deferment for</u> <u>this Site due to the (10) frac tanks remaining onsite</u>. In your last correspondence, you had suggested we send a request each 90-days until the frac tanks are removed and we can complete remediation efforts immediately around and under the frac tanks.

To-date, there are actually two releases that have occurred at this site associated with this equipment.

The original release nAPP2222756518 that occurred on 9/13/0222, and The more recent release nAPP2304339443 that occurred on 2/11/2023

Novo has completed as much of the soil remediation as possible associated with both releases. Novo is working on a permanent solution to this situation.

If you have any questions or need further information, please let us know.

Thank you

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

From:	OCDOnline@state.nm.us
To:	Bryan Haney
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 323042
Date:	Wednesday, March 13, 2024 3:27:36 PM

To whom it may concern (c/o Bryan Haney for NOVO OIL & GAS NORTHERN DELAWARE, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2304339443.

The sampling event is expected to take place:

When: 03/18/2024 @ 09:00 **Where:** D-36-22S-28E 0 FNL 0 FEL (32.342268,-104.048758)

Additional Information: Jimmy Gonzalez - Altamira - 361-207-4228 Bryan Haney - Altamira - 361-658-3126

Additional Instructions: From Carlsbad NM. follow 62/180 East to Nm.176 East follow for 19 Miles, turn right onto San Simone Rd. follow for 4.1 Miles, Turn left at powerlines with three transformers side by side. follow for 1 Mile, turn right follow for .4 miles turn right into Gordita 6 CTB Spotting Instructions Four corners Marked with Stakes and white flagging NW Marker 32.415024, -103.411791 NE Marker 32.415032, -103.410785 SE Marker 32.414555, -103.410775 SW Marker 32.414544 ,-103.411794

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From:	Bryan Haney
To:	Hamlet, Robert, EMNRD
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Montgomery Floyd; Matthew Taylor
Subject:	REQUEST FOR TIME EXTENSION: Novo J-Pad Sites - nAPP2222756518 and nAPP2304339443
Date:	Wednesday, April 3, 2024 1:49:00 PM
Attachments:	image001.png

Rob,

The current timeframe for project completion and reporting is set to expire on April 8, 2024 for both incidents above. We are actively working on both to complete remediation efforts, which we anticipate being completed by early next week. We will then prepare and upload Remediation and Reclamation Closure Reports for both incidents. We would like to request at 30-day extension from April 8, 2024 to complete onsite efforts and reporting.

Thank you for your consideration, Bryan

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



From:	Hamlet, Robert, EMNRD
To:	Bryan Haney
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Montgomery Floyd; Matthew Taylor
Subject:	(Extension Denied) Novo J-Pad Sites - nAPP2222756518 and nAPP2304339443
Date:	Wednesday, April 3, 2024 2:43:57 PM
Attachments:	image003.png

RE: Incident #NAPP2222756518 and NAPP2304339443

Bryan,

Multiple extensions have been granted for these releases. 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 506 W. Texas Ave.| 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: Wednesday, April 3, 2024 12:49 PM

To: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Montgomery Floyd <Montgomery.Floyd@permianres.com>; Matthew Taylor <Matthew.Taylor@permianres.com>

Subject: [EXTERNAL] REQUEST FOR TIME EXTENSION: Novo J-Pad Sites - nAPP2222756518 and nAPP2304339443

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

Rob,

The current timeframe for project completion and reporting is set to expire on April 8, 2024 for both incidents above. We are actively working on both to complete remediation efforts, which we anticipate being completed by early next week. We will then prepare and upload Remediation and Reclamation Closure Reports for both incidents. We would like to request at 30-day extension from April 8, 2024 to complete onsite efforts and reporting. Thank you for your consideration, Bryan

Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Corpus Christi, Texas

Bryan.Haney@altamira-us.com

altamira-us.com



Remediation Response & Reclamation Closure Report Novo Oil & Gas – Rana Salada Pad J – Produced Water Release Discovery Date: February 11, 2023



APPENDIX B Photographic Documentation



View west at soil remediation on south side of frac tanks



View east at soil remediation area on south side of frac tanks



View north at excavated area south and east of frac tanks



View north at soil excavation along the east side of the frac tanks



View west at soil excavation along the north side of the frac tanks



View northwest at backfilled remediation area



View southwest at backfilled remediation area



View south at PJN-9 grid – additional soil excavation in April-March 2024



Backfill at PJN-9 grid



April 5, 2024 - View north at final reclamed area following remediation efforts



April 5, 2024 - View northeast at final reclamed area following remediation efforts

Remediation Response & Reclamation Closure Report Novo Oil & Gas – Rana Salada Pad J – Produced Water Release Discovery Date: February 11, 2023



APPENDIX C Depth to Groundwater Documentation



Re: Rana Salada Pad J Produced Water Release (02/11/2023) Novo Oil & Gas (Permian Resources Operating, LLC) Incident ID: nAPP2304339443 Depth to Groundwater Determination

Depth to Water Determination

Soil boring SB-11 was installed in April 2022 on an adjacent Site just west of the Rana Salada Pad J release area. Soil boring SB-11 was advanced to a depth of 51-feet below ground surface. The purpose of advancing soil boring SB-11 to 51-feet was to determine if groundwater was present below 51-feet. During boring advancement, variations of dry unconsolidated soil and rock were observed. During advancement of soil boring SB-11, groundwater (saturation) was not encountered. The borehole was advanced to 51 feet below ground surface and allowed to stay open for a period of time to monitor for the presence of groundwater. The non-presence of groundwater was verified with an electronic water level probe. The soil boring log and a figure depicting SB-11 and Rana Salada Pad J are attached.

Based on the lines of evidence provided above, groundwater is not present from the surface to 51-feet below ground surface in the area of the release. Based on this site-specific information, analytical data results for soil deeper than four feet will be compared to Closure Criteria for Soils based on groundwater encountered at depths greater than 51 feet below ground surface. This includes comparison of soil sample results below four feet to cleanup standards for chlorides to 10,000 mg/kg, total TPH to 2,500 mg/kg (TPH C6 – C28 less than 1,000 mg/kg).

In an email dated November 9, 2022, the NMOCD approved the depth to groundwater determination.

Aerial Map – SB-11 Location to Site Soil Boring Log SB-11 Email Correspondence – NMOCD approval on Depth to Groundwater Determination



	_	BORING REC	ORD			_				
GEOLOG.	DEPTH	LITHOLOGIC DESCRIPTION					SAM	IPLE	_	REMARK
UNIŤ	(FEET)	N 32, 34047 W-104.04576		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	DEPTH	BACKGROUND OVAL READING: SOIL: 0.0 AIR: 0.0
	0	CO-6:5 Roddis Brown fre sand STIT Dry 10052			(******* (*******		000000000000000000000000000000000000000	Sulling.	XXXX	
	5	(6.5-1225) Ton Free souldsilt Inte Rea cruvel pobblos 2025" Dry	rmitte	2			00	VILLEN ST	XX	5
	10 -			2 (1) (1) (1) (1) (1) (1) (1) (1		-13	00	- Aller	X	10
	15	(12,25-35) Looso fresand with car Itsht For Dry Soil Marder more comported a dans)	lickie with				50	11/1/1	T	15
		(35-48) calichis + fresond Dry		la en esta de la constante de la			200	1/1/1	V	
	20	(48:5-1) Greenist Brown clay ned plast n'orst, Grandwater not encourtered at 5	1274						1	20
	25	TD-5-1' BGS SAmple Fares G-1 0926 1-2 0923	· · · · · · · · · · · · · · · · · · ·			0	0.0		X	25
	30 -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				0	0.0		X	
	35	11-12 0936 14-15 0937 19-20 0952				0	2.0		×	35
		CME CONTINUOUS AUGER SAMPLER WATER TABLE (TIME OF BORING) STANDARD PENETRATION TEST LOCATION	PROJECT N NOVO C	IAME Dil & Gas	- Hade	es Nor	th Loo	op Pro	oduced	Water Relea
-		UNDISTURBED SAMPLE PENETROMETER (TONS/SQ. FT.) WATER TABLE (24 HOURS) NR: NO RECOVERY	BORING NU	MBER <	NVON B-	11	02	24	Э	×1)
			DATE DRILLE DRILLING METHO DRILLED E LOGGED E	D: Direct	Push//	Air Ro h Drill	ing	2.	Zer Zer	63



From:	Bratcher, Michael, EMNRD
То:	Bryan Haney
Cc:	Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] Fwd: nAPP2222756518 - Novo Rana Salada Pad J Release - Depth to Groundwater Determination - Application to soil remediation
Date:	Wednesday, November 9, 2022 9:34:46 AM

Bryan,

This data is acceptable as determination that DTGW is >50' bgs in this area. There is another boring that went to 55' approximately 250 yards ne of the current release site that was determined to be dry as well.

Please include this and all correspondence, including attachments, in the remediation/closure report to insure inclusion in the project file.

Thank you,

Mike Bratcher • Incident Supervisor Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave | Artesia, NM 88210 (575) 626-0857 | mike.bratcher@emnrd.nm.gov NOTE NEW EMAIL ADDRESS http://www.emnrd.state.nm.us/OCD/_



From: Bryan Haney <Bryan.Haney@altamira-us.com>
Sent: Wednesday, November 9, 2022 7:14 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: [EXTERNAL] Fwd: nAPP2222756518 - Novo Rana Salada Pad J Release - Depth to Groundwater Determination - Application to soil remediation

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

Hey Mike,

I sent the information below to Rob but it looks like he is out for a few days. Can you review the information and let me know if this request is acceptable? The depth to groundwater greater than 51 feet is as accepted for the Novo Hades North Loop site. Thanks for your help

Bryan

Sent from my iPhone

Begin forwarded message:

From: Bryan Haney <<u>bryan.haney@altamira-us.com</u>>
Date: November 8, 2022 at 10:01:00 AM CST
To: "Hamlet, Robert, EMNRD" <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>, Dara Tatum <<u>dtatum@novoog.com</u>>
Subject: nAPP2222756518 - Novo Rana Salada Pad J Release - Depth to Groundwater
Determination - Application to soil remediation

Rob,

Just following up on the email below. We are nearing completion of soil remediation activities at the Novo Pad J site and have several areas that are excavated to 4 feet bgs.

I have attached the soil boring log for SB-11 located approximately 900 feet southeast of the Rana Salada Pad J release site (see attached google earth image).

Based on this data, cleanup levels for chlorides according to Table I would be 600 mg/kg for groundwater < or equal to 50 feet bgs, and 10,000 mg/kg for groundwater greater than 50 feet bgs.

We would just like to get final confirmation from you on this prior to backfilling our remediation area.

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
Sent: Thursday, November 3, 2022 12:49 PM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Subject: RE: (Extension Approval) nAPP2222756518 - Novo Rana Salada Pad J Release

Rob,

We are conducting soil remediation activities at the Novo Pad J location this week and

next. Looks like we may have some portions of the excavation that may extend to 4 feet.

The Novo Hades North Loop site is located approximately 150-200 yards from the Pad J Site. We installed a deep soil boring at the Hades site to determine if groundwater was present shallower than 51 feet bgs. Groundwater was not observed above 51 feet bgs and as a results, we would defer to a cleanup level of 10,000 mg/kg for chlorides below 4 feet. Since the two sites are very close to each other and the Pad J site is topographically higher by approximately 10 feet, I would like to use the demonstration of depth to groundwater from Hades for the Pad J site.

Please let me know if you have any concerns with this approach or need further information.

Thank you for your help,

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@emnrd.nm.gov</u>>
Sent: Wednesday, October 19, 2022 3:40 PM
To: Bryan Haney <<u>Bryan.Haney@altamira-us.com</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>;
Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD
<<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD
<Jocelyn.Harimon@emnrd.nm.gov>
Subject: (Extension Approval) nAPP2222756518 - Novo Rana Salada Pad J Release

RE: Incident #NAPP2222756518

Bryan,

Your request for an extension to **January 11th, 2022** is approved. Please include this email correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| 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: Wednesday, October 19, 2022 2:26 PM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Cc: Kurt Shipley <<u>kshipley@novoog.com</u>>; Dara Tatum <<u>dtatum@novoog.com</u>>
Subject: [EXTERNAL] nAPP2222756518 - Novo Rana Salada Pad J Release - REQUEST FOR TIME EXTENSION

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

Rob,

This release occurred on August 13, 2022 – it is considered a minor release based on volume.

Novo has had active equipment in the immediate area since the release. Novo is planning to start hydro-excavation starting 10/24/2022, followed by confirmation sampling for TPH, BTEX and chlorides per guidance. Although we have not encountered the 90 days yet, I am anticipating that with remediation and sampling, followed by reporting we may need some extra time to complete. Novo would like to request a 60-day extension to complete all remediation and closure reporting.

Thanks for your consideration and please let me know if you have any questions.

Bryan

Bryan Haney, TX P.G Senior Project Manager | 361.658.3126 | Bryan.Haney@altamira-us.com altamira-us.com Remediation Response & Reclamation Closure Report Novo Oil & Gas – Rana Salada Pad J – Produced Water Release Discovery Date: February 11, 2023



APPENDIX D Field Documentation Received by OCD: 4/25/2024 5:35:16 PM

0930 defent Hotel 0930 defent Hotel 0951 @ location met og avith Juan & Logue walked 501/1Ara 1011 Ryon Arrivolonsite & we wielked spillAsom. South such finds looks good like Excusion for activities may be deep ch Aprox 3-3.5'. East well south side of tonts Noed more excusion 05 Soutis Stil Nog 1030 took photos & Spill/excadated Areas Spill was from second tonk from East spill spread South Approx 15' then toward East Approx 18' under n" Joky times then North Aprox 10' from cougl of berm to wost to Apout 4th tamp-Area South & tentis ex cavakel 40 Approx 3-3.5' Area onder Polt Ines ox cavated to Approx 2' Area Between joy lines to: le & modietly Behind Fractorik & cavaled Approx 1' North of flog ling behind tents +sile + implietly grequated Approx 2". to leg of 5: Scale: 1 square = Rete in the Rain

Released to Imaging: 6/4/2024 10:45:10 AM

Received by OCD: 4/25/2024 5:35:16 PM

HTT 02/ 18/2023 Novo Lena Salada JPad De Jections: collect soil safles & Griliday Mathr: 30-408 15mph south wind PTT cloudy Marsonel: Oborface 2 J. Contacto 2 Begin Breasury Amirea Location for soids with Alconor & dis till of where Rome ed Softim Cip hand powls decemed Water befuten songles dis Soufle collections soufle collections s collected Samples \$50 -1 to 150-12 and \$ 950-13,14,15 race 3-3.5'. collected & flos South wall of from South wall (0-4) I from East wall (PJN-silie wall-2(0-4) 0 (PJN-silie wall-2(0-4) 0 (PJN-silie wall-3(0-3) All singles In leder on -4.5 1. from Northwal opos of Grids 1310 Tort 5.4 Reto in the Rain Scale: 1 square =

Released to Imaging: 6/4/2024 10:45:10 AM



Received by OCD: 4/25/2024 5:35:16 PM

•

	Client: NOVO 011 4 605 Project: <u>NVONM 2302/001</u>	Page: of Date: Z /2.7 /2023 By: <u>A.g.'n.`O</u> Granzuez
Kana Salada J Rod R	ClCoSC.	
Weather : Cold, Senny	Wind: NE 3MPh	
Objective: Collect PJN.	9 for Verification Sample.	
Staff on site: Highid Gonza	ez	
Ambed On site at 093 PJN-9 to collect for resample locations of the gild and f Only analysis to be run at the	0, Came from other Novo site. Us. 15 5 13. Sample defth was at 5.5 to 6 Feet, a haces into Sample Jar on ice. grid failed for 10 lab. Lett site at 1005.	Site figure, located ollected in 5 random TPH So that's the
		11111111

Released to Imaging: 6/4/2024 10:45:10 AM






Remediation Response & Reclamation Closure Report Novo Oil & Gas – Rana Salada Pad J – Produced Water Release Discovery Date: February 11, 2023



APPENDIX E Waste Management Documentation

Received by OCD: 4/25/2	2024 5:35:16 PM	MEXICO NON-HAZARD	OUS OILFIELD WAS	TE MANIFEST	Company Man Page 74 of 14
R360		(PLEA	ASE PRINT) *REO	UIRED INFORMATION*	Name
SOLUTIONS.	State of the second	a starting the	hun best sense a vegoreter	THE AND STREET, ST	Phone No.
		GEN	ERATOR	NO	0. 621753
Operator No.	Maria 11	21/2	Permit/RRC No. Lease/Well		non stavn jak annih Kanne sit Ofritalmust
Operators Name	Mus N	200	Name & No.	and should be	and Benfall Hold & walk the m
	1 . 12	- Allight	API No.	A STATE OF THE STATE	new mountain and see
City, State, Zip	71+ 518	10/10/00	Rig Name & No.	- Maco	and share when
Phone No	EVENART ER DAManta /Par		AFE/PO No.		
Oil Based Muds	NON	-INJECTABLE WATERS	nt (place volume next to	Waste type in barrels or cut INJECTABLE WATER	dic yards) S
Oil Based Cuttings	Was Com	hout Water (Non-Injectable)		Washout Water (Inje	ctable)
Water Based Cuttings Produced Formation Solids	Produ	uced Water (Non-Injectable)		Produced Water (Inje	ictable)
Tank Bottoms	Gath	ering Line Water/Waste (Non-i RNAL USE ONLY	injectable)	Gathering Line Wate	r/Waste (njectable)
Gas Plant Waste	Truck	Washout (exempt waste)	A new lines	CH AND	
WASTE GENERATION PROCESS	: DRILLING		PRODUC	CTION 🔲 GAT	HERING LINES
A	II ann avernet E8.9 waate mus	NON-EXEMPT E&P Waste	/Service Identification and /	Amount 21 P) Junitability Correctivity arts	n Posativity
Non-Exempt Other	n non-exempleed westernus	LOB SHOWSED ON DE DEDW DT	*please se	elect from Non-Exempt Was	te List on back
QUANTITY THE	B-	BARRELS		Y - YABDS	Ε - ΕΔΩΗ
hereby certify that the above listed	material(s), is (are) not bazard	lous waste as defined by 40 CF	B Part 261 or any applicable	a state law. That each waste ha	as been properly described classified and
packaged, and is in proper condition	for transportation according t	o applicable regulation.			
L RURA EXEMIPI:	per load basis only)	ed from oil and gas exploration	n and production operation a	and are not mixed with non-exe	mpt waste (H360 Accepts certifications on a
RCRA NON-EXEMPT:	Oil field waste which is	non-hazardous that does not e	xceed the minimum standar	ds for waste hazardous by char	acteristics established in RCRA regulations
the second second	waste as non-hazardous	is attached. (Check the approp	priate items as provided)	aupart D, as amended. The fail	owing documentation betrionstrating the
	MSDS Information		A Hazardous Waste Analysi	s [] (Other (Provide Description Below)
	determination and a des	scription of the waste must acc	company this form)	ument of Public Safety (the orde	r, documentation of non-nazardous waste
		0	1. 1976		
(PRINT) AUTHOR	ZED AGENTS SIGNATURE	TDAN	COODTED	SIGNA	ATURE
Transporter's	1 halling 11.			7.4.2.4	
Address	no. Spect 3, 1 h		Phone No.	1-15 2-23 M	275
manual and have the	and as a la	1	Truck No.	110	and the second s
Phone No.	denotational de la constance a internet	Line at the Constant of the line	ad about and dationed with	and incident to the discound for	The Based Balance
I nereby certify that the above hame	a material(s) was/were picked	I up at the Generator's site liste	ed above and delivered with	out incident to the disposal fac	niity listed below.
SHIPMENT DATE	DRIVER'S S	SIGNATURE	DELIVERY DATE		DRIVER'S SIGNATURE
TRUCK TIME S	STAMP	DISPOSA	AL FACILITY	REC	CEIVING AREA
	JI:	Frid A	The the	Name/No	- 11 1-1
Site Name/ Permit No. Halfway	Facility / NM1-006		Phone No.	575-887-6504	
Address 6601 Hobbs	Hwy US 62 / 180 Mile Marke	r 66 Carlsbad, NM 88220	Van and a state of		
NORM READI	NGS TAKEN? (Circle One)	YES NO	If YES, was reading	g > 50 micro roentgents? (Ci	rcle One) YES NO
PASS THE PAINT	FILTER TEST? (Circle One)	YES NO	NORM (mR/hr)		
		TANK	BOTTOMS		
1st Guage		Incnes	BS&V	V/BBLS Received	BS&W (%)
2nd Guage				Free Water	Company of the second
Keceived			to the second	Iotal Received	
I hereby certify that the above load n	naterial has been (circle one):	ACCEPTED	DENIED	If denied, why?	
NAME (PRINT)		DATE	TITLE		SIGNATURE
C-138	White - R360 ORIGIN	IAL Yellow- TRANSPORTE	R COPY Pink- GENERA	TOR SITE COPY Gold- RET	URN TO GENERATOR
donc@northstarforms.com (877)499-04	92			6	308.R360-524

Received by OCD: 4/25/2024 5:35:16 PM	W MEXICO NON-HAZARDO	US OILFIELD WASTE	MANIFEST Co	mpany Man CPuge 75 of 149
H360	(PLEASE	PRINT) *REQUIR	ED INFORMATION* Na	me
	GENE	BATOR	NO. 7	005424
Operator No.		Permit/RRC No		UU3434
Operators Name	Carls South Mathematic South	Lease/Well Name & No.	Hude Kustie	Station Hatel
Address	Charles Consultation on the	County _	Eddy	how - maal a
City, State, Zip	State Law Contract	API No Rig Name & No	Web of the state	Ruthans & Str.
Phone No.		AFE/PO No		N. 201 DR.BUA
EXEMPT E&P Waste, Oil Based Muds	Service Identification and Amount NON-INJECTABLE WATERS	place volume next to was	ste type in barrels or cubic yarc INJECTABLE WATERS	s)
Oil Based Cuttings	Washout Water (Non-Injectable) Completion Fluid/Flow Back (Non-Injec	table)	Washout Water (Injectable) Completion Fluid/Flow Back	(Iniectable)
Water Based Cuttings Produced Formation Solids	Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-Inje	ectable)	Produced Water (Injectable) Gathering Line Water/Waster	(njectable)
Tank Bottoms E&P Contaminated Soil	INTERNAL USE ONLY		OTHER EXEMPT WASTES (typ	e and generation process of the wastel
Gas Plant Waste	G COMPLETION		- GATHERINI	GLINES
	NON-FXEMPT F&P Waste/St	rvice Identification and Amo		
All non-exempt E&P wast	e must be analysed and be below thres	hold limits for toxicity (TCLP) *olease selec	Ignitability, Corrosivity adn Reacti	vity.
				E EACH
I hereby certify that the above listed material(s), is (are) not	b - DANNELS hazardous waste as defined by 40 CFR I	Part 261 or any applicable sta	te law. That each waste has been	properly described, classified and
packaged, and is in proper condition for transportation according BCBA EXEMPT.	rding to applicable regulation.	ad production operation and	are not mixed with non-exempt wa	ste (B360 Accents certifications on a
per load basis on	y)	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 55 A	ing astablished in DCDA regulations
CRA NUN-EXEMPT: On herd waste wi 40 CFR 261.21-26	1.24, or listed hazardous waste as defin	ed by 40 CFR, part 261, subpa	art D, as amended. The following c	locumentation demonstrating the
MSDS Information	n RCRA	lazardous Waste Analysis	Dther (P	rovide Description Below)
EMERGENCY NON-OILFIELD Emergency non-hadetermination and	azardous, non-oilfield waste that has be I a description of the waste must accon	en ordered by the Departmer pany this form)	nt of Public Safety (the order, docur	nentation of non-hazardous waste
Burgle		A State State State State	OWNER	Contraction of the second
(PRINT) AUTHURIZED AGENTS SIGNATURE	TBANS	PORTER	SIGIVATORE	Star Star Star
Transporter's Manager Andrew	MC, AND	Driver's Name	Min 1 Tilly	Crown Ballynow - 1
Address	the transformed	Phone No.	121	the second of the second of the
Phone No.	512 1137		in the second	Manufaction - maker
I hereby certify that the above named material(s) was/were	picked up at the Generator's site listed	above and delivered without	incident to the disposal facility list	ed below.
SHIPMENT DATE DF	IVER'S SIGNATURE	DELIVERY DATE	DRIV	ER'S SIGNATURE
TRUCK TIME STAMP	DISPOSA	L FACILITY	RECEIVIN	IG AREA
	and the second s	A state of the sta		CHINESE SALLES
Permit No. Halfway Facility / NM1-00 Address 6601 Hobbs Hwy US 62 / 180 Mile	06 Marker 66 Carlsbad, NM 88220	Phone No. <u>5</u>	75-887-6504	
NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle	One) YES NO One) YES NO	If YES, was reading > NORM (mR/hr)	50 micro roentgents? (Circle Or	ne) YES NO
The Lost	TANK B	OTTOMS	Languad scholart and the the	William International Party of the
1st Guage		BS&W/B	BLS Received	BS&W (%)
Received	fices and the state of the state	The The T	otal Received	international and the second
I hereby certify that the above load material has been (circle	e one): ACCEPTED	DENIED If d	enied, why?	THOMAN DESIGNATION AND AND
NAME (DDINT)	-	a then	counter the	mun tim hin loss
IVAIVE (FRIINT)	- HATE			SIGNATURE
C-138				SIGNATURE

Received by OCD: 4/25/2024 5:35:16 PM W MEX	KICO NON-HAZARDOUS OILFIELD	WASTE MANIFEST Company Man Carage 76 of 149
ENVIRONMENTAL SOLUTIONS	(PLEASE PRINT)	*REQUIRED INFORMATION* Name
	GENERATOR	NO. 7005044
Operator No.	Permit/RRC	No.
Operators Name NoVO 911+6525	Name & No	. The #1 pard Made Boot in And
Address	API No.	Hand and the second states of the second states of the second sec
City, State, Zip	Rig Name 8	& No.
EXEMPT E&P Waste/Service Id	dentification and Amount (place volume	next to waste type in barrels or cubic yards)
Oil Based Muds NON-INJE Oil Based Cuttings Washout	ECTABLE WATERS Water (Non-Injectable)	INJECTABLE WATERS Washout Water (Injectable)
Waste Based Milds Gompletic Water Based Cuttings Produced	on Fluid/Flow Back (Non-Injectable) Water (Non-Injectable)	Completion Fluid/Flow Back (Injectable)
Tank Bottoms Soil INTERNAL	LUSE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Gas Plant Waste Truck Was	shout (exempt waste)	
WASTE GENERATION PROCESS.	CONTRETION CONTRETION CONTRETION CONTRETION CONTRETION	ino and Amount
All non-exempt E&P waste must be Non-Exempt Other	analysed and be below threshold limits for to *n	oxicity (TCLP), Ignitability, Corrosivity adn Reactivity.
OUANTITY B-BAB	RELS L-LIQUID	Y - YARDS E - FACH
I hereby certify that the above listed material(s), is (are) not hazardous	waste as defined by 40 CFR Part 261 or any a	applicable state law. That each waste has been properly described, classified and
Packaged, and is in proper condition for transportation according to app RCRA EXEMPT: Oil field wastes generated fr	plicable regulation. om oil and gas exploration and production op	peration and are not mixed with non-exempt waste (R360 Accepts certifications on a
per load basis only) RCRA NON-EXEMPT: 0il field waste which is non-	hazardous that does not exceed the minimum	n standards for waste hazardous by characteristics established in RCRA regulations,
40 CFR 261.21-261.24, or list waste as non-hazardous is a	ted hazardous waste as defined by 40 CFR, pa ttached. (Check the appropriate items as prov	art 261, subpart D, as amended. The following documentation demonstrating the vided)
MSDS Information EMERGENCY NON-OILFIELD Emergency non-hazardous. n	RCRA Hazardous Waste	e Analysis U Other (Provide Description Below)
determination and a descript	tion of the waste must accompany this form)	
(PRINT) AUTHORIZED AGENTS SIGNATURE	DATE	SIGNATURE
Transporter's	TRANSPORTER	Torre and wan the of b
Address	Phone No.	me
Phone No.	Truck No.	
I hereby certify that the above named material(s) was/were picked up a	at the Generator's site listed above and delive	ered without incident to the disposal facility listed below.
SHIPMENT DATE DRIVER'S SIGNAT	TURE	IVERY DATE DRIVER'S SIGNATURE
TRUCK TIME STAMP	DISPOSAL FACILIT	RECEIVING AREA
IN: 001: Site Name/	Anaportation Mit Victor 2 min grands and inter-	Name/No
Permit No. Halfway Facility / NM1-006 6601 Hobbs Hwy US 62 / 180 Mile Marker 66	Carlsbad, NM 88220 Phone No.	575-887-6504
NORM READINGS TAKEN? (Circle One) Y	/ES NO If YES, was	s reading > 50 micro roentgents? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) Y	YES NO NORM (mR	3/hr)
Feet Inch	TANK BOTTOMS	Accounted astronomics acting the federatebox solids and anticide them produced
1001	es	
1st Guage		BS&W/BBLS Received BS&W (%) Free Water
1st Guage 2nd Guage Received		BS&W/BBLS Received BS&W (%) Free Water Total Received
1st Guage 2nd Guage Received I hereby certify that the above load material has been (circle one):	ACCEPTED DENIED	BS&W/BBLS Received BS&W (%) Free Water If denied, why?
1st Guage 2nd Guage Received I hereby certify that the above load material has been (circle one):	ACCEPTED DENIED DATE	BS&W/BBLS Received BS&W (%) Free Water If denied, why?

-	V MEXICO NON-HAZARDOL	JS OILFIELD WASTE	MANIFEST Company Man ConPage 27 of d
HASHANTAL SOLUTIONS	(PLEASE	PRINT) *REQUIR	ED INFORMATION* Phone No.
	GENEF	RATOR	NO. 7005853
ierator No.	hina and	Permit/RRC No Lease/Well	The second secon
erators Name Marco oil partes	of humber (1 millions, private the	Name & No.	1. 124 Hide a Caratar Station.
	in to 15 drift	API No.	APLAIN Provide the American Publishes by a
y, State, Zip	n and a sold sold sold sold and a sold sold sold sold sold sold sold sold	Rig Name & No.	and and the restored states of the states and the states of the states o
EXEMPT E&P Waste/Si	ervice Identification and Amount (place volume next to way	ste type in barrels or cubic yards)
I Based Muds N	ON-INJECTABLE WATERS Vashout Water (Non-Injectable)		INJECTABLE WATERS Washout Water (Injectable)
aste Based Muds C. /ater Based Cuttings P	ompletion Fluid/Flow Back (Non-Inject roduced Water (Non-Injectable)	table)	Completion Fluid/Flow Back (Injectable)
oduced Formation Solids G	athering Line Water/Waste (Non-Inje	ctable)	Gathering Line Water/Waste (njectable) OTHER EXEMPT WASTES (type and generation process of the waste)
AP Contaminated Soil as Plant Waste	ruck Washout (exempt waste)	aning a second of a	
ASTE GENERATION PROCESS: DRILLING		PRODUCTIC	ON GATHERING LINES
All non-exempt E&P waste	NON-EXEMPT E&P Waste/Se must be analysed and be below thres	rvice Identification and Amo hold limits for toxicity (TCLP)	unt , Ignitability, Corrosivity adn Reactivity.
on-Exempt Other		*please selec	ot from Non-Exempt Waste List on back
UANTITY	B - BARRELS	L-LIQUID	Y - YARDS E - EACH
ereby certify that the above listed material(s), is (are) not ha	zardous waste as defined by 40 CFR P	Part 261 or any applicable sta	ate law. That each waste has been properly described, classified and
RCRA EXEMPT: 0il field wastes gen	erated from oil and gas exploration ar	nd production operation and	are not mixed with non-exempt waste (R360 Accepts certifications or
per load basis only) BCBA NON-EXEMPT Oil field waste whic	h is non-hazardous that does not exce	ed the minimum standards f	or waste hazardous by characteristics established in RCRA regulation
40 CFR 261.21-261.2 waste as non-bazan	24, or listed hazardous waste as define dous is attached. (Check the appropria	ed by 40 CFR, part 261, subp the items as provided)	art D, as amended. The following documentation demonstrating the
MSDS Information	RCRA H	lazardous Waste Analysis	Other (Provide Description Below)
EMERGENCY NON-OILFIELD Emergency non-haza determination and a	ardous, non-oilfield waste that has be a description of the waste must accom	en ordered by the Departme opany this form)	nt of Public Safety (the order, documentation of non-hazardous waste
(PRINT) AUTHORIZED AGENTS SIGNATURE	2.11.0	NE 3 TEAMOR	SIGNATURE
	TRANS	PORTER	Wester Britestan
ansporter's ame	LLC	Driver's Name	 Visue stated Drilling fluids
Idress and The second	the stream and the	Phone No. 2	A series in the second second second second second
none No.	alma fin	Iruck No	 Manual Data Manual Second Contractory Manual Contractory
ereby certify that the above named material(s) was/were pi	cked up at the Generator's site listed	above and delivered without	incident to the disposal facility listed below.
SHIPMENT DATE DRIV	ER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
TRUCK TIME STAMP	DISPOSAL	L FACILITY	RECEIVING AREA
IN: OUT:		In the prevention	Name/No.
te Name/ Halfway Facility / NM1-006		Phono No.	75-887-6504
ddress 6601 Hobbs Hwy US 62 / 180 Mile Ma	arker 66 Carlsbad, NM 88220		the balong has not as a second reaction and the
		If YES, was reading >	
NORM READINGS TAKEN? (Circle Or	nej teo ivo		50 micro roentgents? (Circle One) YES NO
NORM READINGS TAKEN? (Circle Or PASS THE PAINT FILTER TEST? (Circle Or	ne) YES NO	NORM (mR/hr)	50 micro roentgents? (Circle One) YES NO
NORM READINGS TAKEN? (Circle Or PASS THE PAINT FILTER TEST? (Circle Or	ne) YES NO TANK B	NORM (mR/hr)	50 micro roentgents? (Circle One) YES NO
NORM READINGS TAKEN? (Circle O PASS THE PAINT FILTER TEST? (Circle O Feet	ne) YES NO TANK B	NORM (mR/hr)	50 micro roentgents? (Circle One) YES NO
NORM READINGS TAKEN? (Circle O PASS THE PAINT FILTER TEST? (Circle O Feet st Guage	ne) YES NO TANK BI	NORM (mR/hr)	50 micro roentgents? (Circle One) YES NO 3BLS Received BS&W (%) Free Water Total Received
NORM READINGS TAKEN? (Circle O PASS THE PAINT FILTER TEST? (Circle O Feet st Guage eceived	ne) YES NO TANK B		50 micro roentgents? (Circle One) YES NO 3BLS Received BS&W (%) Free Water Total Received Ienied wbv?
NORM READINGS TAKEN? (Circle O PASS THE PAINT FILTER TEST? (Circle O Feet at Guage eceived ereby certify that the above load material has been (circle o	ine) YES NO TANK B Inches	NORM (mR/hr)	50 micro roentgents? (Circle One) YES NO BBLS Received BS&W (%) Free Water Total Received denied, why?

	VILNIGO NON-HAZANDOC	OS OILI ILLO WASTE IVI	ANIFEST 00	inpany wan corage wordy 247
R360	(PLEASE	PRINT) *REQUIRED	INFORMATION*	me
	GENEF	RATOR	NO. 7	005618
Operator No.	Marine Marine M	Permit/RRC No.	in the company of the company of the	A- Matter
Operators Name NOVO editore 200 editore	netroine modulto II redinor o	Name & No.	Pad Hades	Bousteri Stoling
Address	memilikarikes obiyob and	County	the coort at which the way the America - Pointleon (o	A sharp to
City, State, Zip	All maintent and well district.	Rig Name & No.	and former of the sector	A Lineman and
EXEMPT E&P Waste/Serv	ice Identification and Amount (place volume next to waste	type in barrels or cubic yard	ls)
Oil Based Muds Non Oil Based Cuttings Was	I-INJECTABLE WATERS hout Water (Non-Injectable)		INJECTABLE WATERS Washout Water (Injectable)	
Waste Based Muds Com Water Based Cuttings Prod	pletion Fluid/Flow Back (Non-Injectuced Water (Non-Injectable)	table)	Completion Fluid/Flow Back Produced Water (Injectable)	(Injectable)
Tank Bottoms E&P Contaminated Soil INTE	ering Line Water/Waste (Non-Inje RNAL USE ONLY	ctable)	OTHER EXEMPT WASTES (by	e (njectable)
Gas Plant Waste	k Washout (exempt waste)			CLINER
WASTE GENERATION PROCESS: DI DRILLING	NON-EXEMPTERP Maste/Se	PRODUCTION		d LINES
All non-exempt E&P waste mus	st be analysed and be below thresh	nold limits for toxicity (TCLP), lg	nitability, Corrosivity adn React	ivity.
	RARREI S		Y - YABDS	F - FACH
I hereby certify that the above listed material(s), is (are) not hazar	dous waste as defined by 40 CFR P	art 261 or any applicable state	law. That each waste has been	properly described, classified and
packaged, and is in proper condition for transportation according RCRA EXEMPT: Oil field wastes genera	to applicable regulation. ted from oil and gas exploration ar	nd production operation and are	not mixed with non-exempt wa	aste (R360 Accepts certifications on a
per load basis only) RCRA NON-EXEMPT: Oil field waste which is	non-hazardous that does not exce	ed the minimum standards for v	waste hazardous by characteris	tics established in RCRA regulations,
40 CFR 261.21-261.24, waste as non-hazardou	or listed hazardous waste as define is is attached. (Check the appropria	ed by 40 CFR, part 261, subpart ite items as provided)	D, as amended. The following (documentation demonstrating the
MSDS Information	DODALL			the state of the s
	LI RURA H	azardous Waste Analysis	other (F	Provide Description Below)
EMERGENCY NON-OILFIELD Emergency non-hazardo determination and a d	Dus, non-oilfield waste that has be escription of the waste must accom	azardous Waste Analysis en ordered by the Department o pany this form)	of Public Safety (the order, docu	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazarde determination and a de	Dus, non-oilfield waste that has be escription of the waste must accom	azardous Waste Analysis en ordered by the Department o pany this form) TE	of Public Safety (the order, docu SIGNATURE	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazarda determination and a de	Dus, non-oilfield waste that has be escription of the waste must accom	azardous Waste Analysis en ordered by the Department o pany this form) Tre PORTER	Dther (F of Public Safety (the order, docu signAture	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazardu determination and a de (PRINT) AUTHORIZED AGENTS SIGNATURE Transporter's Name Address	DA DA DA DA DA	azardous Waste Analysis en ordered by the Department o pany this form) WE PORTER Driver's Name Phone No.	Dther (F of Public Safety (the order, docu signAture	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazarda determination and a de (PRINT) AUTHORIZED AGENTS SIGNATURE Transporter's Name Address Phage No	DA DA DA DA DA DA DA DA DA	azardous Waste Analysis en ordered by the Department o pany this form) WE PORTER Driver's Name Phone No. Truck No.	Dther (F of Public Safety (the order, docu SIGNATURE	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazarde determination and a de (PRINT) AUTHORIZED AGENTS SIGNATURE Transporter's Name Address Phone No. I hereby certify that the above named material(s) was/were picket	DA DA DA DA DA DA DA DA DA DA	azardous Waste Analysis en ordered by the Department o pany this form) The PORTER Driver's Name Phone No. Truck No.	Other (F of Public Safety (the order, docu SIGNATURE	Provide Description Below) mentation of non-hazardous waste
EMERGENCY NON-OILFIELD Emergency non-hazarde determination and a de	DA DA DA DA DA DA DA DA DA DA	azardous Waste Analysis en ordered by the Department o pany this form) The PORTER Driver's Name Phone No. Truck No. above and delivered without inc DELIVERY DATE	Other (F other (F other (F signAture ident to the disposal facility lis DRIV	Provide Description Below) mentation of non-hazardous waste
	DA DA DA DA DA DA DA DA DA DA	azardous Waste Analysis en ordered by the Department o pany this form) The PORTER Driver's Name Phone No. Truck No. Truck No. DELIVERY DATE FACILITY	Dther (F Other (F other order, docu signAture ident to the disposal facility lis DRIV RECEIVIN	Provide Description Below) mentation of non-hazardous waste ted below. PER'S SIGNATURE NG AREA
EMERGENCY NON-OILFIELD Emergency non-hazarda determination and a de	DA Hora Hora Hora Hora Hora Hora Hora Hora	azardous Waste Analysis en ordered by the Department o pany this form) THE PORTER Driver's Name Phone No. Truck No. above and delivered without inc DELIVERY DATE FACILLITY	Dther (F other	revide Description Below) mentation of non-hazardous waste ted below. ERI'S SIGNATURE NG AREA
EMERGENCY NON-OILFIELD Emergency non-hazardidetermination and a determination and	DA HORA House that has been excription of the waste must accome and th	Azardous Waste Analysis en ordered by the Department o pany this form) THE PORTER Driver's Name Phone No. Truck No. Above and delivered without inc DEUVERY DATE FACILITY Phone No. S755	Dther (F other	Provide Description Below) mentation of non-hazardous waste ted below. FER'S SIGNATURE NG AREA
EMERGENCY NON-OILFIELD Emergency non-hazardidetermination and a determination and	TRANS	Azardous Waste Analysis en ordered by the Department or pany this form) THE PORTER Driver's Name Phone No. Truck No. Above and delivered without ind DEUVERY DATE FACILITY Phone No. 575 If YES, was reading > 50	Dther (F other	Provide Description Below) mentation of non-hazardous waste ted below. FER'S SIGNATURE NG AREA
EMERGENCY NON-OILFIELD Emergency non-hazarda determination and a determination and	TRANS	Azardous Waste Analysis en ordered by the Department or pany this form) THE PORTER Driver's Name Phone No. Truck No. Above and delivered without ind DEUVERY DATE FACILITY Phone No. 575 If YES, was reading > 50 NORM (mR/hr)	Dther (F other	Provide Description Below) mentation of non-hazardous waste ted below RER'S SIGNATURE NG AREA De) YES NO
	TRANS DATES NO YES NO TANK BA	Azardous Waste Analysis en ordered by the Department o pany this form) TT PORTER Driver's Name Phone No. Truck No. Above and delivered without inc DEUVERY DATE FACILITY Phone No. If YES, was reading > 50 NORM (mR/hr) DTTOMS	Dther (F other	Provide Description Below) mentation of non-hazardous waste ted below. ERTS SIGNATURE NG AREA ne) YES NO
	TRANS	Azardous Waste Analysis en ordered by the Department o pany this form) TP PORTER Driver's Name Phone No. Truck No. Above and delivered without inc DEUVERY DATE FACILITY Phone No. If YES, was reading > 50 NORM (mR/hr) DTTOMS BS&W/BBL	Cherry (Public Safety (the order, docu signAture ident to the disposal facility lis DRIV RECEIVIN Name/No. -887-6504 micro roentgents? (Circle O S Received Free Water	Provide Description Below) mentation of non-hazardous waste ted below. FER'S SIGNATURE NG AREA he) YES NO BS&W (%)
	TRANS	Azardous Waste Analysis en ordered by the Department o pany this form) TE PORTER Driver's Name Phone No. Truck No. Truck No. Above and delivered without ind DEUVERY DATE FACILITY Phone No. If YES, was reading > 50 NORM (mR/hr) DTTOMS BS&W/BBL Tota	Control of the disposal facility lis Control	revide Description Below) mentation of non-hazardous waste ted below. ERIS SIGNATURE NG AREA De) YES NO BS&W(%)
EMERGENCY NON-OILFIELD Emergency non-hazarda determination and a determ	TRANS PACEPTED PACEPTED	Azardous Waste Analysis en ordered by the Department o pany this form) TT PORTER Driver's Name Phone No. Truck No. Above and delivered without ind DEUVERY DATE FACILITY Phone No. 575 (FYES, was reading > 50 NORM (mR/hr) DTTOMS DES&W/BBL Tota DENIED If den	Cherry C	revide Description Below) mentation of non-hazardous waste ted below. Teris SIGNATURE NG AREA The YES NO
	TRANS PACKAT PACKAT PACKAT PACKAT PACKA	Azardous Waste Analysis en ordered by the Department o pany this form) T PORTER Driver's Name Phone No. Truck No. Truck No. Above and delivered without ind DEUVERY DATE FACILITY Phone No. S75 (FYES, was reading > 50 NORM (mR/hr) DTTOMS If YES, was reading > 50 NORM (mR/hr) DTTOMS If den DEUVERY DATE	Cher (F Define (F D	Provide Description Below) mentation of non-hazardous waste ted below. ERIS SIGNATURE NG AREA The YES NO BS&W(%) SIGNATURE

PEASE PRINT PERCENTRATION PROVIDE PRO	ceived by OCD: 4/25/2024 5:35:16 Pl	NEW MEXICO NON-HAZA	RDOUS OILFIELD WAS	TE MANIFEST Company Man C Rage 79 of 12 Name
GENERATOR NO. 7005559 paralar No. Reserved No.	INVIRONMENTAL	(PL	EASE PRINT) *REQU	JIRED INFORMATION* Phone No.
Period No. Period Res. Period		GE	NERATOR	NO. 7005859
Hy Nor. API No. Hy Nore & No. API No. Hy Nore & No. API No. Delevel Much Main Section and Annual Processing Processing Proceedings and Novembry Processing Proceedings and Novembry Processing P	perator No Iperators Name Address	1. Co.s. inclution to and	Permit/RRC No. Lease/Well Name & No. County	Sedad Andes Bostas
EXEMPT LERP Mail (Service Identification and Arean (Prices Volimes Notices and the surface of the yards of a regards) Interact data Mail (Service Area) Mail Ease Multic Produced Kinet (Service Area) Mail Ease Multic Produced Kinet (Service Area) Children Service Produced Kinet (Service Area) Service Kannet Service Produced Kinet (Service Area) Area Service Kannet Area Produced Kinet (Service Area) Area Service Kannet Area Produced Kinet (Service Area) Area Service Kannet Area Produced Kinet (Service Area) Arean Service Kannet Area Produced Kinet	ity, State, Zip	autore scient from the fill autor of large (10) name	API No. Rig Name & No. AFE/PO No.	Acro Oil / Fras
If Based Modes Index Output In Based Modes Index Output Mased Based Modes Pointed File Modes Manage Based Modes Pointed File Modes Manage Based Modes Pointed File Modes Pointed File Modes Pointed File Modes Pointed File Modes Pointed File Modes Market Based Modes Pointed File Modes MARTE GENERATION PROCESS: DBILLINS CARE GENERATION PROCESS: DBILLINS MARTE GENERATION PROCESS: DBILLINS <	EXEMPT E&P W	aste/Service Identification and Ar	nount (place volume next to	waste type in barrels or cubic yards)
NASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION CATHERING LINES NOR PECKIFF EdP water for the analyzed and be before the for local (Property Property Bartison), data Research (Provide Data) Processor (Provide Da	Jil Based Muds	NON-INJECTABLE WATERS Washout Water (Non-Injectable Completion Fluid/Flow Back (No Produced Water (Non-Injectable Gathering Line Water/Waste (N INTERNAL USE ONLY Truck Washout (exempt waste)	e) n-Injectable) e) Ion-Injectable)	INJECTABLE WATERS Washout Water (Injectable) Completion Fluid/Flow Back (Injectable) Produced Water (Injectable) Gathering Line Water/Waste (njectable) OTHER EXEMPT WASTES (type and generation process of the wast
NONE PERFORMANCE TO BE AND ALL TO BE	NASTE GENERATION PROCESS:	LING COMPLETIO	DN PRODUC	CTION GATHERING LINES
The second of t	All your suggest F0.0	NON-EXEMPT E&P W	aste/Service Identification and A	Amount SED Janitability Corresputy edg Repetivity
NUMITY B. BARRELS L-LIQUID Y -VAIDS E-EACH encloye cartify that the above listed material(s), is large har hazardous waste as defined by 40 CRP part 261 or any applicable state law. That each waste has been properly described, classified E-EACH enclose particular of is in proport condition for transportation according to applicable regulation. enclose particular of a parti	Ion-Exempt Other	waste must be analysed and be below	*please se	elect from Non-Exempt Waste List on back
	JUANTITY	B - BARRELS	L-LIQUID	Y - YARDS E - EACH
Image: Contract of the stress of the stre	EMERGENCY NON-OILFIELD Emergency n determinatio	nation	HURA Hazardous Waste Analysi has been ordered by the Depart t accompany this form)	s Uther (Provide Description Below)
TRANSPORTERS Lame Lame Lame Lame Lame Lame Lame Lame		TRA	NSPORTER	VII9,
Hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. SHEWENT DATE DRIVER'S SIGNATURE DRIVER'S SIGNATURE DRIVER'S SIGNATURE TAUCK TIME STAMP DRIVER'S SIGNATURE OUT: Colspan="2">DRIVER'S SIGNATURE Ite Name/ Gent No. 575-887-6504 Maren/No. STE PAINT FILTER TEST? (Circle One) YES NO NORM READINGS TAKEN? (Circle One) YES NO NORM (mR/nh?) Feet Inches BS8W/BBLS Received BS8W (%) Free Water Grade Guage BS8W/(%) Freet STALE Seceived	ansporter's ame ddress hone No.	HALLE HA	Driver's Name Phone No. Truck No.	Solucia Sustaitz 525-393-1079 RG-119
SHIPMENT DATE DRIVERS SIGNATURE DELVERY DATE DRIVERS SIGNATURE TRUCK TIME STAMP DISPOSAL FACILITY RECEIVING AREA IN:OUT: OUT: Name/No ite Name/ ermit No. ddress Halfway Facility / NM1-006 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220 Phone No. 575-887-6504 NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgents? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO NORM (mR/hr) NORM (mR/hr)	nereby certify that the above named material(s) was/v	vere picked up at the Generator's site	listed above and delivered with	nout incident to the disposal facility listed below.
Ite Name/ ermit No. <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u> Phone No. 575-887-6504 NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgents? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO NORM (mR/hr) YES NO Feet Inches BS&W/BBLS Received BS&W (%) Free Water Inches BS&W/BBLS Received BS&W (%) Preet Water Inches BS&W/BBLS Received BS&W (%) Preeby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?	SHIPMENT DATE TRUCK TIME STAMP IN:OUT:	DRIVER'S SIGNATURE	DELIVERY DATE	RECEIVING AREA
NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgents? (Circle One) YES NO PASS THE PAINT FILTER TEST? (Circle One) YES NO NORM (mR/hr) NORM (mR/hr) NORM Feet Inches BS&W/BBLS Received BS&W (%) Est Guage nd Guage Inches Inches BS&W/BBLS Received BS&W (%) Inches rereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? If denied, why?	ite Name/ ermit No. ddress 6601 Hobbs Hwy US 62 / 180 h	1-006 Aile Marker 66 Carlsbad, NM 88220	Phone No.	<u>575-887-6504</u>
TANK BOTTOMS Feet Inches st Guage and Guage eceived BS&W/BBLS Received BS&W (%) and Guage eceived Free Water Total Received BS&W (%) hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?	NORM READINGS TAKEN? (Ci PASS THE PAINT FILTER TEST? (Ci	rcle One) YES NO rcle One) YES NO	If YES, was reading NORM (mR/hr)	g > 50 micro roentgents? (Circle One) YES NO
BS&W/BBLS Received BS&W (%) and Guage Free Water acceived Total Received	r	TAN	K BOTTOMS	enod size livel as down more than a state and a second as a second
nereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?	st Guage	INCHES	BS&V	V/BBLS Received BS&W (%) Free Water Total Received
NAME (DDIATE) DATE TITLE CIGNATIDE	hereby certify that the above load material has been (circle one): ACCEPTED	DENIED	If denied, why?

NVIRONMENTAL				In the light is participant	an on obused	in the second second	Phone No	Ecm
SOLUTIONS			GENE	BATOR		NO.	70059	65
perator No			tratient	Permit/RRC No	nemp att axidu	- Humun Britis	10000	ANT .
	Mario			Lease/Well	an main mining is	a Sal Dar	clex 5	ation
perators Name	AV FRANK	ante, provine mo ante	and solver and	County	HI WASDERING THE	transing curr	Mensori vi	ing an and a
	Standard and a star		eta Malate	API No.	nim en <u>vateril min</u>	American Foriol	tin shirts the	
ity, State, Zip		empo lio	Contraction of the local division of the loc	Rig Name & No).	NUA wit state	Alimenti - Gill O	THE CONTRACT
hone No	EVELADT EO DUAL		ing and Arround	AFE/PO No.		barrals or oubin	wardal	
)il Based Muds	EXEIVIPT EXP VVa	NON-INJECTABLE V	NATERS	Lipiace volume nex	INJE	CTABLE WATERS	yarasi	Contraction of the
)il Based Cuttings		Washout Water (No	on-Injectable)		Was	hout Water (Injecta	able) Back (Injectable)	the second
Vater Based Cuttings	Left (Seat a set	 Produced Water (No 	ow Back (Non-Inje on-Injectable)		Prod	uced Water (Injecta	able)	
roduced Formation Solids ank Bottoms	and the state of the second	Gathering Line Wat	er/Waste (Non-In	ectable)	Gath	ering Line Water/V	Vaste (njectable)	reforess of the wa
&P Contaminated Soil	nelsou nes ne dennis a	Truck Washout (exe	mpt waste)	eren roughar un t		DEDOUAR	iu-diman - milita	
WASTE GENERATION P	ROCESS: DRILI		COMPLETION	PRO	DUCTION	GATHI	ERING LINES	
		NON-EXEM	VIPT E&P Waste/S	ervice Identification a	ind Amount			AN OF STREET
	All non-exempt E&P v	vaste must be analysed a	and be below thre	shold limits for toxicit	γ (TCLP), Ignitabilit	y, Corrosivity adn F	list on back	
Non-Exempt Other				*piea:	se select itom nu	m-Exempt waste	LIST ON DACK	
DUANTITY	Ø	B - BARRELS	in the second	L - LIQUID	att to outen of	Y - YARDS	yor? - someth a B	- EACH
RCRA NON-EXEMPT EMERGENCY NON-C	Oil field wast 40 CFR 261.2 waste as non MSDS Inform ILFIELD Emergency no determination	which is non-hazardous -261.24, or listed hazard hazardous is attached. (I ation n-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di mpany this form)	ndards for waste h 61, subpart D, as a J) alysis epartment of Public	azardous by charac mended. The follov 0t Safety (the order,	cteristics established wing documentation her (Provide Descrip documentation of no	d in RCRA regula demonstrating th tion Below) on-hazardous wa
RCRA NON-EXEMPT EMERGENCY NON-C (PRIN	ILFIELD CHERRENT AUTHORIZED AGENTS SIGNATURE	e which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation n-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco	ceed the minimum sta ined by 40 CFR, part 2 iate items as provider Hazardous Waste An heen ordered by the D impany this form) DATE	ndards for waste h 61, subpart D, as a 1) alysis apartment of Public	azardous by charac mended. The follov Dt C Safety (the order, SIGNAT	cteristics established wing documentation her (Provide Descrip documentation of no URE	d in RCRA regulat demonstrating th tion Below) on-hazardous wa
RCRA NON-EXEMPT EMERGENCY NON-C (PRIN ransporter's	Oil field waste 40 CFR 261.21 waste as non MSDS Inform ILFIELD Emergency no determination	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation n-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provider Hazardous Waste An been ordered by the Di mpany this form) DATE SPORTER	ndards for waste h 61, subpart D, as a 1) alysis epartment of Public	azardous by charac mended. The follov Ot Safety (the order, Si6NATI	cteristics establisher wing documentation her (Provide Descrip documentation of no URE	d in RCRA regular demonstrating th tion Below) on-hazardous wa
RCRA NON-EXEMPT EMERGENCY NON-C (PRIN ransporter's Vame Address	Oil field waste 40 CFR 261.2' waste as non MSDS Inform ILFIELD Emergency no determination	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An meen ordered by the D impany this form) DATE SPORTER Driver's Name Phone No.	ndards for waste h 61, subpart D, as a d) alysis apartment of Public	azardous by charac mended. The follov Dt : Safety (the order, SIGNATI	cteristics established wing documentation her (Provide Descrip documentation of no URE	d in RCRA regulat demonstrating th tion Below) on-hazardous wa:
RCRA NON-EXEMPT EMERGENCY NON-C (PRIN ransporter's Jame Address	ILFIELD Emergency no determination	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation n-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provide Hazardous Waste An eeen ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No.	ndards for waste h 61, subpart D, as a 1) alysis epartment of Public	azardous by charac mended. The follov Ot Safety (the order, SIGNAT	cteristics establisher wing documentation her (Provide Descrip documentation of no URE	d in RCRA regulat demonstrating th tion Below) on-hazardous wa:
	Oil field waste 40 CFR 261.2 waste as non MSDS Inform Emergency no determination	which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the	s that does not ex lous waste as def Check the approp RCRA d waste that has b waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No.	ndards for waste h 61, subpart D, as a J) alysis epartment of Public	azardous by charac mended. The follov Dt Safety (the order, SIGNATI	teristics established ving documentation her (Provide Descrip documentation of no URE	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	ILFIELD CFR 261.2 Waste as non MSDS Inform Emergency no determination	e which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation n-hazardous, non-oilfield and a description of the end a description of the rere picked up at the Ger	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provide Hazardous Waste An been ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered	ndards for waste h 61, subpart D, as a alysis apartment of Public apartment of Public without incident to	azardous by charac mended. The follov Ot Safety (the order, SIGNATI	teristics establisher ving documentation her (Provide Descrip documentation of no URE	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2 waste as non MSDS Inform ILFIELD Emergency no determination	A which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation on-hazardous, non-oilfield and a description of the and a description of the rere picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp Check the approp RCRA d waste that has b e waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered	ndards for waste h 61, subpart D, as a J) alysis epartment of Public epartment of Public under the subpart of the subpart of the subpart of t	azardous by charac mended. The follov Ot Safety (the order, SIGNATI	teristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below.	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	VII field waste 40 CFR 261.2 waste as non MSDS Inform Emergency no determination T) AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP	e which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the and a description of the prese picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp RCRA d waste that has he waste must acco TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY	ndards for waste h 61, subpart D, as a 1) alysis epartment of Public without incident to DATE	azardous by charac mended. The follow C Ott C Safety (the order, SIGNATI SIGNATI D Ott C D Ott	teristics establisher wing documentation her (Provide Descrip documentation of no une ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regulat demonstrating th tion Below) on-hazardous wa:
	Oil field waste 40 CFR 261.2 waste as non MSDS Inform Emergency no determination T) AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT:	verie picked up at the Ger	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An eeen ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY	ndards for waste h 61, subpart D, as a J) alysis epartment of Public without incident to DATE	azardous by charac mended. The follov	teristics establisher ving documentation her (Provide Descrip documentation of no URE URE ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	VILFIELD CHER 261.2' Waste as non MSDS Inform DILFIELD Emergency no determination TO AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT:	a which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation m-hazardous, non-oilfield and a description of the and a description of the pere picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp Check the approp RCRA d waste that has the waste must accord TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY AL FACILITY	ndards for waste h 61, subpart D, as a J) alysis epartment of Public without incident to DATE Nam 575-887-	azardous by charac mended. The follow Ott Safety (the order, SIGNATI SIGNATI SIGNATI Control of the disposal facil RECE ne/No 6504	teristics establisher ving documentation her (Provide Descrip documentation of n URE ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination TAUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT: OUT: DUT:	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation in-hazardous, non-oilfield rand a description of the vere picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco TRANS TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An open ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY SL FACILITY	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887-	azardous by charac mended. The follov	teristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform ILFIELD Emergency no determination TO AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT:	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation in-hazardous, non-oilfield and a description of the and a description of the rere picked up at the Ger DRIVER'S SIGNATURE DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp Check the approp RCRA d waste that has b waste must acco TRANS TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY L FACILITY Phone No.	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro	azardous by charac mended. The follow	teristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination T) AUTHORIZED AGENTS SIGNATURE we named material(s) was/w TIME STAMP OUT: DIftway Facility / NM1 1 Hobbs Hwy US 62 / 180 M M READINGS TAKEN? (Cirr PAINT FILTER TEST? (Cirr	a which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the vere picked up at the Ger DRIVER'S SIGNATURE I-006 IIIE Marker 66 Carlsbad cle One) YES cle One) YES	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS TRANS	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An open ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY LEFACILITY Phone No. If YES, was rea NORM (mR/hr	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro	azardous by charac mended. The follov	teristics establisher ving documentation her (Provide Descrip documentation of no une ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating the tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination TO AUTHORIZED AGENTS SIGNATURE we named material(s) was/w TIME STAMP OUT: DIfway Facility / NM1 Hobbs Hwy US 62 / 180 M M READINGS TAKEN? (Cir PAINT FILTER TEST? (Cir	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation in-hazardous, non-oilfield y and a description of the were picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco TRANS TRANS DISPOSA	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An eeen ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY L FACILITY Phone No. If YES, was rea NORM (mR/hr BOTTOMS	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro	azardous by charac mended. The follow 	teristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below. DRIVER'S SIGNATURE EIVING AREA	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination D AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT: DIftway Facility / NM1 11 Hobbs Hwy US 62 / 180 M A READINGS TAKEN? (Cirr E PAINT FILTER TEST? (Cirr Feet	a which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the and a description of the In-ous signature I-006 Ile Marker 66 Carlsbad cle One) YES cle One) YES cle One) YES	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco TRANS DISPOSA NO NO TANK E	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY AL FACILITY Phone No. If YES, was rea NORM (mR/br BOTTOMS	ndards for waste h 61, subpart D, as a 1) alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro S&W/BBLS Rece	azardous by charac mended. The follow	cteristics establisher wing documentation her (Provide Descrip documentation of no une ity listed below. DRIVER'S SIGNATURE EIVING AREA cle One) YES	d in RCRA regular demonstrating the tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination TO AUTHORIZED AGENTS SIGNATURE we named material(s) was/w TIME STAMP OUT:	a which is non-hazardous I-261.24, or listed hazard hazardous is attached. (I ation in-hazardous, non-oilfield y and a description of the were picked up at the Ger DRIVER'S SIGNATURE	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco TRANS TRANS DISPOSA NO NO TANK E	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An eeen ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY AL FACILLITY Phone No. If YES, was rea NORM (mR/hr BOTTOMS	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro S&W/BBLS Rece Free V	azardous by charac mended. The follow	teristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below. DRIVER'S SIGNATURE EIVING AREA cle One) YES	d in RCRA regular demonstrating th tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination TO AUTHORIZED AGENTS SIGNATURE we named material(s) was/w TIME STAMP OUT: DIftway Facility / NM1 11 Hobbs Hwy US 62 / 180 W A READINGS TAKEN? (Cirr Feet	a which is non-hazardous i-261.24, or listed hazard hazardous is attached. (i ation in-hazardous, non-oilfield and a description of the and a description of the part of the prever picked up at the Ger DRIVER'S SIGNATURE I-006 Lile Marker 66 Carlsbad cle One) YES cle One) YES linches	s that does not ex lous waste as def Check the approp RCRA d waste that has h e waste must acco TRANS DISPOSA NO NO TANK E	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY AL FACILITY Phone No. If YES, was rea NORM (mR/br SOTTOMS	ndards for waste h 61, subpart D, as a j) alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro S&W/BBLS Reco Free V Total Reco	azardous by charac mended. The follow	teristics establisher ving documentation her (Provide Descrip documentation of no une ity listed below. DRIVER'S SIGNATURE IVING AREA Cle One) YES	d in RCRA regular demonstrating the tion Below) on-hazardous wa
	Oil field waste 40 CFR 261.2' waste as non MSDS Inform Emergency no determination T) AUTHORIZED AGENTS SIGNATURE ve named material(s) was/w TIME STAMP OUT:	a which is non-hazardous i-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the were picked up at the Ger DRIVER'S SIGNATURE I-006 Ite Marker 66 Carlsbad cle One) YES cle On	s that does not ex lous waste as def Check the approp RCRA d waste that has b e waste must acco TRANS TRANS DISPOSA NO NO NO TANK E	Creed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An open ordered by the Di impany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY AL FACILITY Phone No. If YES, was rea NORM (mR/hr SOTTOMS	ndards for waste h 61, subpart D, as a alysis epartment of Public without incident to DATE Nam 575-887- ading > 50 micro S&W/BBLS Reco Free V Total Reco If denied, wh	azardous by charac mended. The follow	cteristics establisher ving documentation her (Provide Descrip documentation of no URE ity listed below. DRIVER'S SIGNATURE EIVING AREA cle One) YES	J in RCRA regulat demonstrating th tion Below) on-hazardous wa:
	Oil field waste 40 CFR 261.2 waste as non MSDS Inform Emergency no determination TO AUTHORIZED AGENTS SIGNATURE we named material(s) was/w TIME STAMP OUT:	a which is non-hazardous 1-261.24, or listed hazard hazardous is attached. (I ation In-hazardous, non-oilfield and a description of the and a description of the Particle one) YES Inches Sircle one): ACCE	s that does not ex lous waste as def Check the approp Check the approp RCRA d waste that has b waste must acco TRANS DISPOSA NO NO TANK E PTED	ceed the minimum sta ined by 40 CFR, part 2 iate items as provided Hazardous Waste An been ordered by the Di mpany this form) DATE SPORTER Driver's Name Phone No. Truck No. d above and delivered DELIVERY L FACILITY Phone No. If YES, was rea NORM (mR/hr SOTTOMS	ndards for waste h 61, subpart D, as a 1) alysis epartment of Public without incident to DATE Narr 575-887- ading > 50 micro S&W/BBLS Record Free V Total Record If denied, wh	azardous by charac mended. The follow	cteristics establisher wing documentation her (Provide Descrip documentation of no une ity listed below. DRIVER'S SIGNATURE EIVING AREA Cle One) YES	J in RCRA regular demonstrating th tion Below) on-hazardous wa NO

B360				
VIRONMENTAL SOLUTIONS	(PLEASE	PRINT) *REQUIRE	ED INFORMATION*	Phone No.
	GENER	RATOR	NO.	7005619
erator No. Perators Name Idress	te dealer ad number <u>strauss estade tre DR</u> three <u>movine deallectronee and Pre</u>	Permit/RRC No Lease/Well Name & No County	Party Hab	S Boosts : S
ty, State, Zip	en nomber and web ment	AFT No Rig Name & No AFE/PO No	when the name of the differences	And Annual Pills
EXEMPT E&P Wast	e/Service Identification and Amount (place volume next to was	ste type in barrels or cubic	yards)
I Based Muds I Based Cuttings Aste Based Muds Ater Based Cuttings Cater	NON-INJECTABLE WATERS Washout Water (Non-Injectable) Completion Fluid/Flow Back (Non-Inject Produced Water (Non-Injectable)	table)	INJECTABLE WATERS Washout Water (Injecta Completion Fluid/Flow E Produced Water (Injecta	ble) ack (Injectable) ble)
AP Contaminated Soil	Gathering Line Water/Waste (Non-Injec INTERNAL USE ONLY Truck Washout (exempt waste)	ctable)	Gathering Line Water/W	/aste (njectable) 3 (type and generation process of the was
ASTE GENERATION PROCESS:	NG COMPLETION	PRODUCTIO	N GATHE	RING LINES
All non-exempt E&P wa	NON-EXEMPT E&P Waste/Ser ste must be analysed and be below thresh	rvice Identification and Amor hold limits for toxicity (TCLP), *please selec	unt Ignitability, Corrosivity adn R t from Non-Exempt Waste	pactivity. List on back
UANTITY bun deliver	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
BCBA NON-EXEMPT Oil field waste v	nly) vhich is non-hazardous that does not excee	ed the minimum standards fo	or waste hazardous by charact	eristics established in RCRA regulati
RCRA NON-EXEMPT: Oil field waste v 40 CFR 261.21-2 waste as non-hi MSDS Informati EMERGENCY NON-OILFIELD Emergency non- determination a	nly) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion RCRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp	ed the minimum standards for ed by 40 CFR, part 261, subpa te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form)	or waste hazardous by charact art D, as amended. The follow Oth t of Public Safety (the order, c	eristics established in RCRA regulati ing documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was
Per road Dasis o Dif field waste v 40 CFR 261.21-2 waste as non-hi MSDS Informati EMERGENCY NON-OILFIELD Emergency non- determination a (PRINT) AUTHORIZED AGENTS SIGNATURE	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion CRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp Dat	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form)	or waste hazardous by charact art D, as amended. The follow 0 Oth at of Public Safety (the order, c SIGNATU	eristics established in RCRA regulati ing documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was
RCRA NON-EXEMPT: Oil field waste v 40 CFR 261.21-2 waste as non-h MSDS Informat MSDS Informati EMERGENCY NON-OILFIELD Emergency non- determination a (PRINT) AUTHORIZED AGENTS SIGNATURE	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion RCRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp Dat TRANSP	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No.	or waste hazardous by charact art D, as amended. The follow 0 th t of Public Safety (the order, c SIGNATU	eristics established in RCRA regulating documentation demonstrating there (Provide Description Below) ocumentation of non-hazardous was
RCRA NON-EXEMPT: Oil field waste A 40 CFR 261.21-7 waste as non-he MSDS Informati EMERGENCY NON-OILFIELD Emergency non- determination a (PRINT) AUTHORIZED AGENTS SIGNATURE	niy) vhich is non-hazardous that does not exceed (61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion RCRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp DAT TRANSF	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No.	or waste hazardous by charact art D, as amended. The follow 0 th tt of Public Safety (the order, c SIGNATU	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. Truck No.	or waste hazardous by charact art D, as amended. The follow Oth tt of Public Safety (the order, c SIGNATU	eristics established in RCRA regulati ing documentation demonstrating th er (Provide Description Below) ocumentation of non-hazardous was RE
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion RCRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp Date TRANSE Date Date Date Date Date Date Date Date	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) THE PORTER Driver's Name Phone No. Truck No. Truck No.	or waste hazardous by charact art D, as amended. The follow 0 th t of Public Safety (the order, c SIGNATU incident to the disposal facilit RECEI Name/No.	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was accurate a substantiation of non-hazardous was accurate a substantiation of non-hazardous was briver's signature VING AREA
PERIOD Date Oil field waste A 40 CFR 261.21-7 waste as non-h MSDS Informat EMERGENCY NON-OILFIELD Emergency non-determination a (PRINT) AUTHORIZED AGENTS SIGNATURE ansporter's ame Idress one No. SHIPMENT DATE TRUCK TIME STAMP N: OUT: te Name/ trmit No. Halfway Facility / NM1-fito 6601 Hobbs Hwy US 62 / 180 Mile	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion RCRA Ha hazardous, non-oilfield waste that has bee nd a description of the waste must accomp Dat TRANSF e picked up at the Generator's site listed a DRIVER'S SIGNATURE DISPOSAL D06 e Marker 66 Carlsbad, NM 88220	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. above and delivered without DELIVERY DATE FACILITY Phone No.	or waste hazardous by charact art D, as amended. The follow Oth tt of Public Safety (the order, c SIGNATU SIGNATU Incident to the disposal facilit RECEI Name/No 75-887-6504	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. DELIVERY DATE FACILITY Phone No. 57 Phone No. 57 If YES, was reading > 5 NORM (mR/hr)	or waste hazardous by charact art D, as amended. The follow 0 th t of Public Safety (the order, or SIGNATU SIGNATU 1 1 1 1 1 1 1 1 1 1 1 1 1	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was ate y listed below. DRIVER'S SIGNATURE VING AREA e One) YES NO
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. DELIVERY DATE FACILITY Phone No. 57 If YES, was reading > 5 NORM (mR/hr)	er waste hazardous by charact art D, as amended. The follow	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was a set of the set
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpa- te items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. DELIVERY DATE FACILLITY Phone No. 1f YES, was reading > 5 NORM (mR/hr) DTTOMS	or waste hazardous by charact art D, as amended. The follow	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was ate vilisted below. DRIVER'S SIGNATURE VING AREA e One) YES NO BS&W (%)
	niy) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpate ite items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. DELIVERY DATE FACILLITY Phone No. Truck No. DELIVERY DATE FACILLITY Phone No. Truck No. DELIVERY DATE FACILLITY Phone No. Truck No. DELIVERY DATE FACILLITY DELIVERY DATE Truck No. Truck No. DELIVERY DATE FACILLITY	or waste hazardous by charact art D, as amended. The follow Oth t of Public Safety (the order, or SiGNATU S	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was
	niv) vhich is non-hazardous that does not excee 61.24, or listed hazardous waste as define azardous is attached. (Check the appropriat ion	ed the minimum standards for ed by 40 CFR, part 261, subpate ite items as provided) azardous Waste Analysis en ordered by the Departmen pany this form) TE PORTER Driver's Name Phone No. Truck No. DEUVERY DATE FACILITY Phone No. If YES, was reading > 5 NORM (mR/hr) DTTOMS BS&W/BI TR DENIED If de	or waste hazardous by charact art D, as amended. The follow 0 th t of Public Safety (the order, or SIGNATU	eristics established in RCRA regulating documentation demonstrating the er (Provide Description Below) ocumentation of non-hazardous was a e (Provide Delow. DRIVER'S SIGNATURE VING AREA e One) YES NO BS&W (%) SIGNATURE

Received by OCD: 4/25/2024 5:35:16 PMEW MEXIC	CO NON-HAZARDOUS O	ILFIELD WASTE MA	ANIFEST Company Man Page 82 of 149
ENVIRONMENTAL	(PLEASE PRII	NT) *REQUIRED	INFORMATION* Phone No.
	GENERAT	OR	NO. 7005954
Operator No.	OMD_OTEL Pe	rmit/RRC No.	
Operators Name Address	Le Na	ase/vveii ame & No unty	Ole al bar Contractor
City, State, Zip Phone No.	Rice AF	j Name & No E/PO No	and Makes Proster Station
EXEMPT E&P Waste/Service Ider Oil Based MudsNON-INJECT	ntification and Amount (place TABLE WATERS	volume next to waste t	ype in barrels or cubic yards) INJECTABLE WATERS
Oil Based Cuttings Waste Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms Washout Washout W	ater (Non-Injectable) Fluid/Flow Back (Non-Injectable) ater (Non-Injectable) ne Water/Waste (Non-Injectable		Washout Water (Injectable) Completion Fluid/Flow Back (Injectable) Produced Water (Injectable) Gathering Line Water/Waste (njectable)
E&P Contaminated Soil Gas Plant Waste Truck Washo	SE ONLY out (exempt waste)		OTHER EXEMPT WASTES (type and generation process of the waste)
WASTE GENERATION PROCESS: DRILLING		PRODUCTION	GATHERING LINES
NOI All eon-exempt E&P waste must be are	N-EXEMPT E&P Waste/Service I	dentification and Amount pits for toxicity (TCLP) Ioni	tability Porrosviny an Roantivity
Non-Exempt Other		*please select fro	m Non-Exempt Waste List on back
QUANTITY 10 B - BARREL	LS CONSIGNATION L-LIC	QUID - Constant - Administration	Y - YARDS E - EACH
RCRA NON-EXEMPT: Oil field waste which is non-haz 40 CFR 261.21-261.24, or listed waste as non-hazardous is attace MSDS Information EMERGENCY NON-OILFIELD Emergency non-hazardous, non- determination and a description	ardous that does not exceed the hazardous waste as defined by 4 ched. (Check the appropriate iten RCRA Hazardo oilfield waste that has been orde of the waste must accompany the	minimum standards for wa 10 CFR, part 261, subpart D ns as provided) us Waste Analysis ered by the Department of his form)	aste hazardous by characteristics established in RCRA regulations, , as amended. The following documentation demonstrating the Other (Provide Description Below) Public Safety (the order, documentation of non-hazardous waste
	TBANSPOR	TFR	SIGNATURE
Phone No. I hereby certify that the above named material(s) was/were picked up at the	Dri Pho Tru e Generator's site listed above a	ver's Name	ent to the disposal facility listed below:
SHIPMENT DATE DRIVER'S SIGNATURE		DELIVERY DATE	DRIVER'S SIGNATURE
TRUCK TIME STAMP IN:OUT:	DISPOSAL FA	CILITY	RECEIVING AREA
Site Name/ Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carl	Isbad, NM 88220	ine No. <u>575-8</u>	87-6504
NORM READINGS TAKEN? (Circle One) YES PASS THE PAINT FILTER TEST? (Circle One) YES	NO IFY NO NO	ES, was reading > 50 m RM (mR/hr)	icro roentgents? (Circle One) YES NO
Féet Inches	TANK BOTT	OMS	
1st Guage 2nd Guage Received	think of a second se	BS&W/BBLS Fre Total I	Received BS&W (%) ee Water Received
I hereby certify that the above load material has been (circle one):	ACCEPTED DENIEL) If denied	, why?
NAME (PRINT)	DATE	TITLE	SIGNATURE
C-138 White - R360 DRIGINAL Y	ellow- TRANSPORTER COPY	Pink- GENERATOR SITE (COPY Gold- RETURN TO GENERATOR 308.R360-5240

Received by OCD: 4/25/2024	5:35:16 PM NEW MEX	ICO NON-HAZARDOUS O	ILFIELD WASTE MA	ANIFEST Co	mpany Man Contact Information
		(PLEASE PRIN	NT) *REQUIRED	INFORMATION*	ame
All and a second	The other clears		de the rig management of	ner 1 – Natarine Ini ta Pl	ione No
erator No		GENERAT	TOR	NO.	005735
Operators Name	UNO		ase/Well	Provide The Ralling of Contra	Permittant
Address	reduce modeline an	Na	unty	Helly m	Californi - Californi
City, State, Zip		AP Rig	1 No 1 Name & No		of the most site
Phone No.	APT E&P Maste /Service Id	AF	E/PO No.	tuno in horrela or subiavor	
Oil Based Muds	NON-INJE	CTABLE WATERS	volume next to waste	INJECTABLE WATERS	05)
Waste Based Muds	Washout V Completion	Vater (Non-Injectable) n Fluid/Flow Back (Non-Injectable) Mater (Non-Injectable)		Washout Water (Injectable) Completion Fluid/Flow Back	(Injectable)
Produced Formation Solids	Gathering	Line Water/Waste (Non-Injectable)		Gathering Line Water/Wast	(e (njectable)
E&P Contaminated Soil Gas Plant Waste	Truck Wast	nout (exempt waste)		OTHER EXEMPTI WAS LES (BY	pe and generation process of the waste)
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION	GATHERIN	IG LINES
All non-	N exempt E&P waste must be a	ON-EXEMPT E&P Waste/Service I nalysed and be below threshold lin	dentification and Amount mits for toxicity (TCLP), Ign	iitability, Corrosivity adn Reac	tivity.
Non-Exempt Other			*please select fro	om Non-Exempt Waste List	on back
QUANTITY	B - BARF	RELS L-LIC		Y - YARDS	E - EACH
packaged, and is in proper condition for tra	ansportation according to appl Oil field wastes generated fro	n oil and gas exploration and proc	f of any applicable state a	aw. That each waste has been	aste (B360 Accents certifications on a
	per load basis only) Oil field waste which is non-h	azardous that does not exceed the	minimum standards for w	aste hazardous by characteris	stics established in BCBA regulations
	40 CFR 261.21-261.24, or liste waste as non-hazardous is att	ed hazardous waste as defined by 4 tached. (Check the appropriate iter	40 CFR, part 261, subpart L ns as provided)	D, as amended. The following	documentation demonstrating the
	MSDS Information	RCRA Hazardo	ous Waste Analysis	Other (F	Provide Description Below)
	Emergency non-nazardous, no determination and a description	on of the waste must accompany t	ered by the Department of his form)	Public Safety (the order, docu	mentation of non-hazardous waste
(PRINT) AUTHORIZED AG	ENTS SIGNATURE	DATE	1 629	SIGNATURE	And the second s
Transporter's	Strept PA	TRANSPOR	RTER	- ante	and performances
NameAddress	Wanter Tratste	Dri	ver's Name	121119901	393 10 75
Dhana Na	the UM	Tru	ck No.	1.14	
I hereby certify that the above named mate	erial(s) was/were picked up at	the Generator's site listed above a	and delivered without incid	dent to the disposal facility lis	ted below.
SHIPMENT DATE	DRIVER'S SIGNATE	IRE	DELIVERY DATE	DRIV	ZER'S SIGNATURE
TRUCK TIME STAN	ЛР	DISPOSAL FA	CILITY	RECEIVIN	NG AREA
OUT:		ning and annual and an and an	Norteolisti di mane propin e	Name/No	
Permit No. Halfway Faci	lity / NM1-006	Pho	one No. 575-	887-6504	Tern Bottoms
Address MORM READINGS 3	JS 62 / 180 Mile Marker 66 C	arisbad, NM 88220	E una rondina EO a	to a local provident and	nal VES NO
PASS THE PAINT FILTER	R TEST? (Circle One) YE	S NO NO	IRM (mR/hr)		
	Strong the Level	TANK BOTT	OMS	the same performance of	control beneformation
1st Guage	Inches	Alter of the set for sector	BS&W/BBLS	Received	BS&W (%)
2nd Guage Received		The second s	Fr	ree Water Received	
I hereby certify that the above load materia	al has been (circle one):	ACCEPTED DENIE	D If denie	d, why?	stron esercivit inspis
NAME (PRINT)		DATE	TITLE	ni na	SIGNATURE
C-138	White - R360 ORIGINAL	Yellow- TRANSPORTER COPY	Pink- GENERATOR SITE	COPY Gold- RETURN TO	GENERATOR
donc@northstarforms.com (877)499-0492					308.R360-5240

Received by OCD: 4/25/2024 5:35:16 PM	MEXICO NON-HAZARDO	DUS OILFIELD WASTE M	ANIFEST Company Man Contact Information
ENVIRONMENTAL SOLUTIONS	(PLEAS	E PRINT) *REQUIRED	INFORMATION* Phone No.
	GENE	RATOR	NO. 7001017
Operator No.	ittelocare a	Permit/RRC No.	TOTAL
Operators Name	יישמטור א מדילעייי, בירטיאלי	Name & No.	The set should be write a start of the set o
Aduress	मन, स्थाप्रसन्न पाछ होतीन तितान हो। काल जि.सीसमध	County	Caunty Fryderbacker an anti-she with
City, State, Zip	nimber of well mine	Rig Name & No.	t all to show all a family with the main party and the
EXEMPT E&P Waste/Serv	ice Identification and Amount	AFE/PO No.	time in hereals or subic vorde)
Oil Based Muds	-INJECTABLE WATERS	(piddo voidino next to Wdate	INJECTABLE WATERS
Waste Based Muds Com Water Based Cuttings Decide	nout Water (Non-Injectable) oletion Fluid/Flow Back (Non-Inje	ectable)	Washout Water (Injectable) Completion Fluid/Flow Back (Injectable)
Produced Formation Solids Gath	ering Line Water/Waste (Non-Inj	ectable)	Produced Water (Injectable) Gathering Line Water/Waste (njectable)
E&P Contaminated Soil Internet Gas Plant Waste	RNAL USE ONLY Washout (exempt waste)		OTHER EXEMPT WASTES (type and generation process of the waste)
WASTE GENERATION PROCESS: DRILLING		PRODUCTION	GATHERING LINES
All per amount CPD	NON-EXEMPT E&P Waste/S	ervice Identification and Amount	Internet to an internet in the second second
Non-Exempt Other	t be analysed and be below thre:	shold limits for toxicity (TCLP), Ign *please select fro	Itability, Corrosivity adn Reactivity.
QUANTITY B-	BARRELS		
I hereby certify that the above listed material(s), is (are) not hazard	ous waste as defined by 40 CFR	Part 261 or any applicable state la	aw. That each waste has been properly described, classified and
Packaged, and is in proper condition for transportation according to RCRA EXEMPT: Oil field wastes generate	o applicable regulation. Ed from oil and gas exploration a	nd production operation and are n	int mixed with non-exempt waste (B360 Accents partifications on a
per load basis only) BCBA NON-EXEMPT Oil field waste which is r	on hazardous that does not aver	and the minimum standards to	entities warrier steller ware from Access certifications of a
40 CFR 261.21-261.24	r listed hazardous mat does not excl is attached. (Check the appropri-	eed the minimum standards for wa led by 40 CFR, part 261, subpart D	aste hazardous by characteristics established in RCRA regulations, , as amended. The following documentation demonstrating the
MSDS Information	RCRA F	lazardous Waste Analysis	Other (Provide Description Below)
EMERGENCY NON-OILFIELD Emergency non-hazardou determination and a desi	us, non-oilfield waste that has be cription of the waste must accom	en ordered by the Department of apany this form)	Public Safety (the order, documentation of non-hazardous waste
- Principal and the second second	3	The second	200-070-1-0-010-0
(PRINT) AUTHORIZED AGENTS SIGNATURE	TDANC		SIGNATURE
Transporter's CRUHOLDUR	Sug		. Elen Martin Englisher a sur
Address	& true	Phone No.	and the second sec
Phone No.	31072	Truck No.	A second se
I hereby certify that the above named material(s) was/were picked	up at the Generator's site listed a	bove and delivered without incid	ent to the disposal facility listed below.
SHIPMENT DATE DRIVER'S SI	GNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
TRUCK TIME STAMP	DISPOSAL	FACILITY	RECEIVING AREA
IN: OUT:		A del harvesternett del M	Jame/No.
Site Name/ Permit No. Halfway Facility / NM1-006	menter of	Phone No. 575-8	87-6504
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker	66 Carlsbad, NM 88220		his case and the set has been been
NORM READINGS TAKEN? (Circle One)	YES NO	If YES, was reading > 50 mi	icro roentgents? (Circle One) YES NO
PASS THE PAINT HILTER TEST? (Circle One)	YES NO	NORM (mR/hr)	and a second a provide second
Feet In	LIANK BC	DITIOMS	 Arrod et advert as man a sama den basel a man et al estat regitadante environt matematicate, dense antices
1st Guage	All and a state of the state	BS&W/BBLS F	Received BS&W (%)
Received	Contraction of the second	Free Total F	Received
hereby certify that the above load material has been (circle one):	ACCEPTED	DENIED If denied	why?
NAME (IDDINT)	Date		gen et al line ment son ses im blig
C-138	DATE	TITLE	SIGNATÜRE
donc@northstarforms.com (877)499-0492	Yellow- THANSPORTER COL	PY Pink- GENERATOR SITE C	OPY Gold-RETURN TO GENERATOR 308.R360-5240

Received by OCD: 4/25/2024 :	5:35:16 PMEW MEXIC	0 NON-HAZARD	OUS OILFIELD WAS	TE MANIFEST Company M	lan (Page 85 of 1
ENVIRONMENTAL SOLUTIONS		(PLEA)	SE PRINT) *REC	UIRED INFORMATION*	m vongmoti P
Contraction Participant		GENE	BATOR	NO 6979	290
Operator No.	and the second		Permit/RRC No.	and the second second second	Phone No.
Operators Name Address	D.12675		Lease/Well Name & No. County API No.	Spel Helesbers	ki sklag
City, State, Zip	and we let		Rig Name & No.	te the second	and the second second
EXEM	PT E&P Waste/Service Iden	ntification and Amoun	t (place volume next to	waste type in barrels or cubic yards)	A CONTRACTOR OF THE OWNER OWNE
Oil Based Muds Oil Based Cuttings Waste Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste	NON-INJECT Washout Wa Completion F Produced Wa Gathering Lin INTERNAL IS Truck Washou	ABLE WATERS ter (Non-Injectable) luid/Flow Back (Non-Inj tter (Non-Injectable) te Water/Waste (Non-In SE ONLY ut (exempt waste)	ectable)	INJECTABLE WATERS Washout Water (Injectable) Completion Fluid/Flow Back (Injectable) Produced Water (Injectable) Gathering Line Water/Waste (njectable) OTHER EXEMPT WASTES type and generation	ation process of the waster
WASTE GENERATION PROCESS:	DRILLING	COMPLETION		CTION GATHERING LINES	-
Alleon	Nor	N-EXEMPT E&P Waste/	Service Identification and 7	Amount	A COMPANY
Non-Exempt Other	Another even statistic Huger and Old	TO SET UNIT DES DOLUMENTES	*please s	elect from Non-Exempt Waste List on back	
QUANTITY 200	B - BARREL	S	L - LIQUID	Y - YARDS	E - EACH
EMERGENCY NON-OILFIELD	0 CFR 261.21-261.24, or listed I vaste as non-hazardous is attac ASDS Information mergency non-hazardous, non- etermination and a description NTS SIGNATURE	hazardous waste as defi shed. (Check the appropri- RCRA oilfield waste that has b of the waste must acco TRANS	ined by 40 CFR, part 261, s iate items as provided) Hazardous Waste Analysi meen ordered by the Depart mpany this form) DATE SPORTER Driver's Name Phone No. Truck No.	subpart D, as amended. The following documentat s Other (Provide Desc tment of Public Safety (the order, documentation of SIGNATURE	ion demonstrating the pription Below) f non-hazardous waste
I hereby certify that the above named mater	rial(s) was/were picked up at th	ie Generator's site listed	l above and delivered with	out incident to the disposal facility listed below.	and the second
SHIPMENT DATE	DRIVER'S SIGNATURE	DIEDOCA			RE
		DISPUSA	LFAGILITY	Name/No	
Site Name/ Permit No. Halfway Facil	ity / NM1-006	labod NM 00220	Phone No.		and a second s
NORM READINGS T PASS THE PAINT FILTER	AKEN? (Circle One) YES TEST? (Circle One) YES	NO NO	If YES, was reading NORM (mR/hr)	g > 50 micro roentgents? (Circle One) YES	S NO
		TANK B	OTTOMS		
Feet 1st Guage 2nd Guage Received	Inches	-	BS&V	V/BBLS Received BS&V Free Water Total Received	V (%)
hereby certify that the above load material	has been (circle one):	ACCEPTED	DENIED	If denied, why?	e turi ritante dimensionale
C-138 donc@northstarforms.com (877)499-0492	White - R360 ORIGINAL	date Yellow- TRANSPORTER (TITLE COPY Pink- GENERAT	SIGNATURE	R 308.R360-524

NVIRONMENTAL SOLUTIONS	IFLEA		Phone No.
	GEN	ERATOR	N0.7005920
perator No.	dd heites	Permit/RRC No.	2 Addien
perators Name	CAS antista il india	Name & No.	I Pad trades Boos
ddress	The star blan of shores -	County	add Young courses and a stand a second
ity, State, Zip	and the second state	Rig Name & No.	Hodes Booster stan
none No.	WIN CONTRACTOR	AFE/PO No	the south as a difference of a first state
EXEMPT E&P Waste/S	ervice Identification and Amou ION-IN.IECTABLE WATERS	int (place volume next to waste	e type in barrels or cubic yards)
Il Based Cuttings	Vashout Water (Non-Injectable)		Washout Water (Injectable)
/ater Based Cuttings	roduced Water (Non-Injectable)		Produced Water (Injectable)
ank Bottoms	athering Line Water/Waste (Non- NTERNAL USE ONLY	Injectable)	Gathering Line Water/Waste (njectable) OTHER EXEMPT WASTES (type and generation process of the wa
as Plant Waste	ruck Washout (exempt waste)		a second family a province of the second
IASTE GENERATION PROCESS: DRILLING	COMPLETION	PRODUCTION	GATHERING LINES
All non-exempt E&P waste	NON-EXEMPT E&P Waste must be analysed and be below th	/Service Identification and Amoun reshold limits for texicity (TCLP). In	it gnitability, Corresivity adn Reactivity,
on-Exempt Other		*please select l	from Non-Exempt Waste List on back
UANTITY DO YDS	B - BARRELS	L - LIQUID	Y - YARDS E - EACH
ereby certify that the above listed material(s), is (are) not ha	zardous waste as defined by 40 Cl	R Part 261 or any applicable state	e law. That each waste has been properly described, classified a
ckaged, and is in proper condition for transportation accordi	ng to applicable regulation. erated from oil and das exploratio	n and production operation and are	e not mixed with non-exempt waste (B360 Accents certification
RCRA NON-EXEMPT: Oil field waste whic 40 CFR 261.21-261. waste as non-hazar MSDS Information	h is non-hazardous that does not e 24, or listed hazardous waste as d dous is attached. (Check the appro RCR	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th Other (Provide Description Below) of Public Safety (the order documentation of can bazardous wa
RCRA NON-EXEMPT: Oil field waste white 40 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD Emergency non-hazar determination and a	h is non-hazardous that does not e 24, or listed hazardous waste as do dous is attached. (Check the appro RCR ardous, non-oilfield waste that has a description of the waste must act	exceed the minimum standards for offined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis obeen ordered by the Department of company this form)	waste hazardous by characteristics established in RCRA regular t D, as amended. The following documentation demonstrating th Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa
RCRA NON-EXEMPT: Oil field waste white 40 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD EMERGENCY NON-OILFIELD (PRINT) AUTHORIZED AGENTS SIGNATURE	h is non-hazardous that does not e 24, or listed hazardous waste as d dous is attached. (Check the appro Cardous, non-oilfield waste that has description of the waste must act	exceed the minimum standards for effined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form)	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE
RCRA NON-EXEMPT: Oil field waste whic 40 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD Emergency non-hazar determination and a (PRINT) AUTHORIZED AGENTS SIGNATURE	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Cardous, non-oilfield waste that has description of the waste must act TRAN	exceed the minimum standards for sfined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa
RCRA NON-EXEMPT: Oil field waste whic 40 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD Emergency non-hazar determination and a (PRINT) AUTHORIZED AGENTS SIGNATURE ansporter's ame ddress	h is non-hazardous that does not e 24, or listed hazardous waste as de dous is attached. (Check the appro Cardous, non-oilfield waste that has description of the waste must acc TRAN	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No.	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE
RCRA NON-EXEMPT: Oil field waste white 40 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD Emergency non-haza determination and a (PRINT) AUTHORIZED AGENTS SIGNATURE ansporter's ame ddress	h is non-hazardous that does not e 24, or listed hazardous waste as do dous is attached. (Check the appro RCR ardous, non-oilfield waste that has description of the waste must act TRAN	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE DATE SPORTER Driver's Name Phone No. Truck No.	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating t D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE
RCRA NON-EXEMPT: Oil field waste which 40 CFR 261.21-261.3 waste as non-hazar more mergency non-hazar mergency non-hazar determination and a comporter's aame anaporter's aame address ame ad	h is non-hazardous that does not e 24, or listed hazardous waste as de dous is attached. (Check the appro Cardous, non-oilfield waste that has description of the waste must act TRAN	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No.	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Cardous, non-oilfield waste that has a description of the waste must act TRAN	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No.	waste hazardous by characteristics established in RCRA regular t D, as amended. The following documentation demonstrating th D ther (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE cident to the disposal facility listed below.
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Check the appro RCR ardous, non-oilfield waste that has a description of the waste must ac TRAN cked up at the Generator's site list FR'S SIGNATURE	Exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. Truck No.	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE Cident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA
RCRA NON-EXEMPT: Oil field waste whic 40 CFR 261.21-261.: waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD EMERGENCY NON-OILFIELD EMERGENCY NON-OILFIELD EMERGENCY NON-OILFIELD Emergency non-hazar determination and a Emergency non-hazar emergency n	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Cardous, non-oilfield waste that has a description of the waste must act TRAN	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. ed above and delivered without ind DELIVERY DATE AL FACILITY	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th D ther (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE Cident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No.
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Check the appro RCR ardous, non-oilfield waste that has description of the waste must act TRAN TRAN cked up at the Generator's site list FIS SIGNATURE DISPOS	exceed the minimum standards for sfined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. ed above and delivered without ind DELIVERY DATE AL FACILITY	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th D ther (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE Cident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No.
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro la RCR ardous, non-oilfield waste that has description of the waste must ac TRAN cked up at the Generator's site list rr's SIGNATURE DISPOS	Exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE AL FACILITY Phone No.	waste hazardous by characteristics established in RCRA regula t D, as amended. The following documentation demonstrating th D ther (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE SIGNATURE DRIVER'S SIGNATURE RECEIVING AREA Name/No 5-887-6504
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro- RCR ardous, non-oilfield waste that has a description of the waste must acc TRAN Cked up at the Generator's site list Cked up at the Generator's site list	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE AL FACILITY Phone No. Truck PACE DELIVERY DATE	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th D Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE SIGNATURE DRIVER'S SIGNATURE RECEIVING AREA Name/No 5-887-6504 D micro roentgents? (Circle One) YES NO
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro legandous, non-oilfield waste that has a description of the waste must act TRAN cked up at the Generator's site list cked up at the Generator's site list ERS SIGNATURE DISPOS arker 66 Carlsbad, NM 88220 ne) YES NO ne) YES NO	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE AL FACILITY Phone No. 575 If YES, was reading > 50 NORM (mR/hr)	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating the other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous was SIGNATURE signature cident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. 5-887-6504 O micro roentgents? (Circle One) YES
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro- RCR ardous, non-oilfield waste that has a description of the waste must acc TRAN Cked up at the Generator's site list FR'S SIGNATURE DISPOS arker 66 Carlsbad, NM 88220 ne) YES NO ne) YES NO NO NE	exceed the minimum standards for effined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE ALFACILITY Phone No. STS If YES, was reading > 50 NORM (mR/hr) BOTTOMS	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th D ther (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE SIGNATURE Content to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No 5-887-6504 D micro roentgents? (Circle One) YES NO
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Cardous, non-oilfield waste that has description of the waste must act TRAN Created up at the Generator's site list cked up at the Generator's site list	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE AL FACILITY Phone No. 16 YES, was reading > 50 NORM (mR/hr) BOTTOMS	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE RECEIVING AREA Name/No. 5-887-6504 D micro roentgents? (Circle One) YES NO LS Received BS&W (%)
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro legandous, non-oilfield waste that has a description of the waste must act TRAN TRAN cked up at the Generator's site list rrs SIGNATURE DISPOS arker 66 Carlsbad, NM 88220 ne) YES NO ne) YES NO ne) YES NO No	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. Truck No. DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 NORM (mR/hr) BOTTOMS	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating the other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous was signature SIGNATURE neident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. 5-887-6504 0 micro roentgents? (Circle One) YES NO Free Water In Provide Description
RCRA NON-EXEMPT: Oil field waste white A0 CFR 261.21-261.3 waste as non-hazar MSDS Information EMERGENCY NON-OILFIELD Emergency non-haza determination and a (PRINT) AUTHORIZED AGENTS SIGNATURE ansporter's ame ddress none No. sHIPMENT DATE DRW TRUCK TIME STAMP IN: OUT: te Name/ ermit No. ddress MORM READINGS TAKEN? (Circle Or PASS THE PAINT FILTER TEST? (Circle OR PASS THE PAINT F	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro left RCR ardous, non-oilfield waste that has a description of the waste must act TRAN Cked up at the Generator's site list FR'S SIGNATURE DISPOS	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. Truck No. d above and delivered without ind DELIVERY DATE AL FACILITY Phone No. STS (f YES, was reading > 50 NORM (mR/hr) BOTTOMS BS&W/BBL Tot	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating th Other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous wa SIGNATURE SIGNATURE DRIVER'S SIGNATURE RECEIVING AREA Name/No. Dmicro roentgents? (Circle One) YES N0 SReceived BS&W (%) Free Water tal Received
	h is non-hazardous that does not e 24, or listed hazardous waste as di dous is attached. (Check the appro Checked up and the waste must act cked up at the Generator's site list cked up at the Gene	exceed the minimum standards for efined by 40 CFR, part 261, subpart priate items as provided) A Hazardous Waste Analysis been ordered by the Department of company this form) DATE SPORTER Driver's Name Phone No. Truck No. DELIVERY DATE AL FACILITY Phone No. 16 YES, was reading > 50 NORM (mR/hr) BOTTOMS BS&W/BBL Tot DENIED If den	waste hazardous by characteristics established in RCRA regula t D, as amended The following documentation demonstrating the other (Provide Description Below) of Public Safety (the order, documentation of non-hazardous was signature) SIGNATURE signature RECEIVING AREA Name/No. 5-887-6504 D micro roentgents? (Circle One) YES NO Free Water tal Received BS&W (%) Free Water tal Received

Released to Imaging: 6/4/2024 10:45:10 AM

Received by OCD: 4/25/2024 5:35:16 PMEW M	EXICO NON-HAZARDOU	IS OILFIELD WASTE MA	ANIFEST Company Man Carage \$7.05.149
ENVIRONMENTAL SOLUTIONS	(PLEASE	PRINT) *REQUIRED	INFORMATION* Name
	GENER	ATOR	NO. 7005000
Operator No.	- Linter and	Permit/RRC No.	Store Manufacture And Francis a store function where
Operators Name	Hard and the first of the	Lease/Well Name & No.	ana Salaha Zarat
Address	and the first and shirten and	County	BO Martin and a second stand
City, State, Zip	ni namer and see as	Rig Name & No.	PAN Hades Dorden Sandahing
Phone No. EXEMPT E&P Waste/Service	e Identification and Amount Ir	AFE/PO No	type in barrals or outie yards)
Oil Based Muds	NJECTABLE WATERS	JIGG VOIGING NEXT ID WASTE	INJECTABLE WATERS
Waste Based Muds Waste Based Muds Comple	out Water (Non-Injectable) etion Fluid/Flow Back (Non-Inject	able)	Washout Water (Injectable) Completion Fluid/Flow Back (Injectable)
Produced Formation Solids Gather	ed Water (Non-Injectable) ing Line Water/Waste (Non-Injec	table)	Gathering Line Water/Waste (njectable)
E&P Contaminated Soil	VAL USE ONLY Vashout (exempt waste)	them the at talk there is	OTHER EXEMPT WASTES (type and generation process of the waste)
WASTE GENERATION PROCESS: DRILLING		PRODUCTION	GATHERING LINES
Alt non-exemut F&P waste must	NON-EXEMPT E&P Waste/Ser	vice Identification and Amount	inability Porresivity and Reactivity
Non-Exempt Other		*please select fro	om Non-Exempt Waste List on back
OUANTITY B - B	ARRELS	L - LIQUID	Y - YARDS E - EACH
I hereby certify that the above listed material(s), is (are) not hazardo packaged, and is in proper condition for transportation according to	us waste as defined by 40 CFR Pa applicable regulation.	rt 261 or any applicable state la	aw. That each waste has been properly described, classified and
RCRA EXEMPT: Oil field wastes generated per load basis only)	d from oil and gas exploration and	I production operation and are r	not mixed with non-exempt waste (R360 Accepts certifications on a
RCRA NON-EXEMPT: Oil field wast which is no	on-hazardous that does not excee	d the minimum standards for w	aste hazardous by characteristics established in RCRA regulations,
40 th 251.21-261.24, or waste as non-hazardous i	s attached. (Check the appropriat	e items as provided)	J, as amended. The following documentation demonstrating the
EMERGENCY NON-OILFIELD Emergency non-hazardous	RCRA Ha	zardous Waste Analysis n ordered by the Department of	Public Safety (the order, documentation of non-hazardous waste
determination and a descr	ription of the waste must accomp	any this form)	Construction of the Constr
(PRINT) AUTHORIZED AGENTS SIGNATURE	DAT	Y-/	SIGNATURE
Transporter's	TRANSP	ORTER	PH- 4671 antenanterin - en
Address	al Herry	Driver's Name	15 31 3 1000
Habba 441 88	240 /	Truck No.	20 116 + million and a million and a
I hereby certify that the above named material(s) was/were picked u	up at the Generator's site listed at	ove and delivered without incid	dent to the disposal facility listed below
SHIPMENT DATE DRIVER'S SIG	NATURE	DELIVERY DATE	DRIVER'S SIGNATURE
TRUCK TIME STAMP	DISPOSAL	FACILITY	RECEIVING AREA
IN: OUT:		automotive fait in	Name/No
Site Name/ Permit No. Halfway Facility / NM1-006		Phone No. 575-	887-6504 amazed and
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker	66 Carlsbad, NM 88220	Augustan subits	 Des Radjone sint and one cost agree in only of the second s
NORM READINGS TAKEN? (Circle One)	YES NO	If YES, was reading > 50 n	nicro roentgents? (Circle One) YES NO
FASS THE FAINT FILTEN TEST? (CITCLE OTIE)			and the state of t
1et Cueses	iches		
2nd Guage	The section of the se	ESQVV/DBL3	ree Water
Received		Total	Received
I hereby certify that the above load material has been (circle one):	ACCEPTED D	ENIED If denie	d, why? In the second
NAME (PRINT)	DATE	TITLE	SIGNATURE
C-138			
donc@northstarforms.com (877)499-0492 White - R360 ORIGINAL	Yellow- TRANSPORTER COL	PY Pink- GENERATOR SITE	COPY Gold- RETURN TO GENERATOR 308.R360-5240

Released to Imaging: 6/4/2024 10:45:10 AM



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048

NON-	HAZARDOUS WASTE MANIFEST	Г	No. 202271	Trailer No. ST	ANDARD 009				
	Company Name: Permian Resources Phone: (432) 695-4222		Address: 300 N. Marienfie Midland, TX 797	eld St., #1000 '01	Disposal Date: 03-19-2024 09:38 AM				
RATOR	Name Or Description Of Waste Shipped: X RCRA Exempt RCRA Exempt RCRA Non-Exempt								
ENEI	Weight (lbs): 145220 Ta 89780								
	Lease/Job Name: PAD J								
	Generator's Representative: Montgomery Floyd			<u></u>					
	Name: Standard Safety & Supply								
TER	Emergency Contact: Luis Gavalo	don							
OR.	Emergency Contact Phone: (432	2) 741-2509							
TRANSP	Transporter: Acknowledgment of Printed/Typed Name (Impreso/Mecanografico):		Material ela Ros	Date: 03-19-20	24 09:38 AM				
			· · · · · · · · · · · · · · · · · · ·						
ΓΙΤΥ	Lea Land, LLC	Mile Marke Miles East	er 64, U.S. Hwy 6 Of Carlsbad, NM	2/180, 30 1	(575) 887-4048				
L FACI	Permit No: NM-1-0035-New Mexico	Comments	:						
POSA	Disposal Facility's Certification: I Hereby Certify That The Above-	Described W	/astes Were Deli	vered To This F	acility.				
DIS	Authonized-Signature:		Unit No: IIA	Date 03-19-2024	Time 09:38 AM				

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Remediation Response & Reclamation Closure Report Novo Oil & Gas – Rana Salada Pad J – Produced Water Release Discovery Date: February 11, 2023



Appendix F Laboratory Analytical Data Reports



February 21, 2023

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: NOVO J PAD NEW RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 1 (4-4.5') (H230779-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2023	ND	2.03	101	2.00	4.82	
Toluene*	0.074	0.050	02/20/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.052	0.050	02/20/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	1.05	0.150	02/20/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	1.17	0.300	02/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.3	10.0	02/21/2023	ND	193	96.4	200	1.68	
DRO >C10-C28*	219	10.0	02/21/2023	ND	230	115	200	6.06	
EXT DRO >C28-C36	14.9	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 2 (4-4.5') (H230779-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	1.35	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.661	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	14.2	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	16.2	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	209 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	124	10.0	02/21/2023	ND	193	96.4	200	1.68	
DRO >C10-C28*	653	10.0	02/21/2023	ND	230	115	200	6.06	
EXT DRO >C28-C36	51.1	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 3 (4-4.5') (H230779-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	0.297	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.184	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	3.79	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	4.28	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	158 %	6 71.5-13	24						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	98.1	10.0	02/21/2023	ND	193	96.4	200	1.68	
DRO >C10-C28*	665	10.0	02/21/2023	ND	230	115	200	6.06	
EXT DRO >C28-C36	39.4	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	112 %	6 48.2-13	24						
Surrogate: 1-Chlorooctadecane	137 %	6 49.1-14	18						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 4 (4-4.5') (H230779-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	0.072	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.068	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	1.44	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	1.58	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	39.0	10.0	02/21/2023	ND	193	96.4	200	1.68	
DRO >C10-C28*	389	10.0	02/21/2023	ND	230	115	200	6.06	
EXT DRO >C28-C36	25.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	96.3 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 5 (4-4.5') (H230779-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	110	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 6 (4-4.5') (H230779-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.108	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	1.61	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	1.72	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	151 %	6 71.5-13	24						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	757	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	67.2	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	121 %	6 48.2-13	24						
Surrogate: 1-Chlorooctadecane	144 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 7 (4-4.5') (H230779-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	99.3	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 8 (4-4.5') (H230779-08)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	64.5	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	74.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 9 (4-4.5') (H230779-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	1.85	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.875	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	20.2	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	22.9	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	250 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	533	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	1570	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	111	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	103 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 %	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 10 (4-4.5') (H230779-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	1.03	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	0.566	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	GC-NC1
Total Xylenes*	13.0	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	14.6	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	197 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	198	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	757	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	47.5	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	88.7 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 11 (4-4.5') (H230779-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99. 7 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 12 (4-4.5') (H230779-12)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	28.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	109 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 13 (3-3.5') (H230779-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	25.4	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 14 (3-3.5') (H230779-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/21/2023	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	81.3 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN 15 (3-3.5') (H230779-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	202	101	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	190	95.1	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN SIDEWALL - 1 (0-3') (H230779-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	202	101	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	190	95.1	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	79.2 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN SIDEWALL - 2 (0-4') (H230779-17)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.03	101	2.00	4.82	
Toluene*	<0.050	0.050	02/21/2023	ND	1.97	98.4	2.00	4.67	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.3	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.92	98.6	6.00	4.17	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	202	101	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	190	95.1	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	104 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/20/2023	Sampling Date:	02/18/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	NOVO J PAD NEW RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOVONM2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING NM		

Sample ID: PJN SIDEWALL - 3 (0-4') (H230779-18)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	103	2.00	4.03	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.5	2.00	4.17	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.88	98.0	6.00	4.57	
Total BTEX	<0.300	0.300	02/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/21/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	202	101	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	190	95.1	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	78.6	48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Maria (575) 393-233 Company Name:	and, Hobbs, NM 882/ 26 FAX (575) 393-24: amira	6	BILL TO		ANA	VOIC DECLIECT
Project Mananer Alta	amira		BILL TO		ANA	LYSIS REQUEST
44000 Dimension	aney		P.O. # Direct Bill]	Novo		
Address: 14229 Punta b	onaire		company: Oil and G	as		
city: Corpus Christi	State: Texas	Zip: 78412	Attn:			
Phone # 361-658-3126	Fax# 2ng	and	Address:		_	
Project # NHCH##2204/00	F NV0 NM COUCH	Bryan Haney	City:			
Project Name: Nova Creation	on O Pad release	NONO J DA IN HOM	State: Zip:		_	
Project Location: Loving Nev	w Mexico	Inchange	Phone 养			
Sampler Name: O.Gonzalez, S	S.Waters, J.Gonza	lez	Fax 井		0	
FOR LAB USE ONLY		MATRIX	PRESERV SAM	PLING	Γ.	
		(C)OMP. ERS ATER ER	Z	σ		
4230779	10 t.C.	(G)RAB OI GROUNDV WASTEWA SOIL OIL SLUDGE	OTHER : ACID/BASE CE / COOI DTHER : DATE		S m C	
1 QNI (Z	1-4.5')	d I X	× 2/18/23	X 0221	×	
2 NVG (7	1-4.5')		X 2/18/23	X 2221	××	
3 PJW 3 6 4	(-4.5.)		X 2/18/23	1224 X	XXX	
U LIN H CH.	-4.5') 0	X	X 2/18/23	1226 X	XXX	
- H C MA S	4.5'		× 2/18/23	X 8221	XX	
6 PM 6 4-	4.51	- - -	X 2/18/23	12.30 X	XX	
7 PN 1 4-	4.5')	- X	X 2/18/23	1232 X	XX	
2 KN 8 CH	-4.5.)	X	X 2/18/03	1234 X	XX	
INT CT-	4.5		X 2/18/23	1236 X	XX	
JULY WOTE: Liability and Demager. Cardwarth Tability alyzers. All claims. Including litera for medicanon and any	and client's exclusive raisedy for any cl	C I X X	2/8/1 2 X	1238 X		
reice. In the event shell Candmal be liable for incidents) o linker or successors whileg out of or related to the perfor cellinguished By:	r consequential damagan, botuding with rmance of services hereander by Caula Davidor	ood limitation, bedietes inservations, love al. regardiets of gledies such claim is t	s of use, or items of goulits incurred by ci- aned upon any of the above stated rea	sompesar of the approache and, its subsidiaries, acrist of officensise.		
	1040	Innora .	Allah a	All Results are emails	d. Please provide Ema	hone 称 il address::
After frauenthemas	Time:	eceived By:	5	REMARKS:	H Hr T	41
Delivered By: (Circle One)	Observed Tamp. "C	/ Sample Condition	CHECKED BY:	Turnaround Time:	Standard 0	acteria (only) Sample Condition



February 28, 2023

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: NOVO RANA SALADA J PAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/27/23 16:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	NOVO RANA SALADA J PAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NVONM 2302/001	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NEW MEXICO		

Sample ID: PJN - 9 5.5-6' (H230905-01)

TPH 8015M	mg/k	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1340	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	5830	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	394	10.0	02/27/2023	ND					
Surrogate: 1-Chlorooctane	386 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

impany: Oil and Gas	14229 Punta Bonaire co	ess:
2. # Direct Bill Novo	nager: Bryan Haney P.C	ect Mana
BILL TO	Name: Altamira	pany Na
	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
CHAIN-OF-CUSTO	Laboratories	

Company Name:		BILL TO				ANAI VSIS RECUJEST
Project Manager: Rovan Haney		P.O. # Direct Bill No	NO	1		
Address: 14229 Punta Bonaire		company: Oil and Gas	0,			
city: Corpus Christi st	tate: Texaszip: 78412	Attn:			_	
Phone # 361-658-3126 Fax	X 养	Address:			_	
Project # NVONNNNNA /001 Pro	oject Owner: Bryan Haney	City:				
Project Name: Never Counting B Da	tologse Novo	State: Zip:			_	
Project Location: Loving New Mexic	10 J PAN Delesso	Phone 弗			2	
Sampler Name: O, Gonzalez, S, Water	s, J.Gonzalez	Fax #:			I	
FOR UAB USE DRUY	D. MATRIX	PRESERV. SAMPL	ING			
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SI UDGE	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		TDH	0 <u>k</u> omo	
S-S P-W/ I	-6' 01 X	X2/27/2X	× 05bc	×	*	
-	c ×	X	X		X	
	0	X	×	L	X	
	C	X	×		X	
		X			X	
	c x	X		×	XX	
	C X	< ×			××	
		×			X	
PLEASE NOTE: Unabley and Damages. Cardinal's liability and client's an analyses. All claims including those for negligence and any other cause a service. In no event shall Cardinal be liable for included or constant service.	clustive romedy for any claim aching whether based in costs enablescen that the deemest waived unitest made in writing deemages, including without limitation of unitests interruption to a human die functional industriation of unitestate much de- tront	act or test, shall be livelined to the amount paid to end received by Cardinal willin 30 days after o rs, torst of uses, or loost of profits incurred by clier to is based amon any of the above strong teaco	y the client for the ompletion of the appl of, its subsidiaries	kable		
Relinquished By:	mag: 48 Received By:	1 Malla	Verbal Result All Results are	emaile	d. Please p	o Add't Phone #: provide Email address:
Refinquished By	me: Received By:		REMARKS:	0	HH	r TAT
Delivered By: (Circle One)	** T *** * C 2.7 Sample Cond	t CHECKED BY: 1 (Initials)	furnaround Ti	me:	Standar	Cool Intact Observed Temp. "C
Sampler - UPS - Bus - Other: Correct	Ins Tamp, "C.Q. Ins In	No TO	Inermometer ID	# -0.5"0		Nc No Corrected Temp. "C

† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

Page 4 of 4



March 26, 2024

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: RANA SALADA J-PAD FRAC TANK RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 16:53.

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

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 26-Mar-24 12:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PJN - 9 8-8.5'	H241398-01	Soil	18-Mar-24 08:30	18-Mar-24 16:53
PJN - 9 SIDEWALL - 4 0-8'	H241398-02	Soil	18-Mar-24 08:32	18-Mar-24 16:53
PJN - 9 SIDEWALL - 5 0-8'	H241398-03	Soil	18-Mar-24 08:34	18-Mar-24 16:53
PJN - 9 SIDEWALL - 6 0-8'	H241398-04	Soil	18-Mar-24 08:36	18-Mar-24 16:53

03/26/24 - Client added TPH on 03/22/24 (see COC). This is the revised report and will replace the one sent on 03/22/24.

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

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: RANA SALADA J-PAD FRAC TANK Project Number: NVONM 2302/001 Project Manager: BRYAN HANEY Fax To:						Reported: 26-Mar-24 12:00		
			PJN H2413	- 9 8-8. 398-01 (Section 1997)	5' 51)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Petroleum Hydrocarbons by G	GC FID										
GRO C6-C10*	23.9		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B		
DRO >C10-C28*	173		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B		
Surrogate: 1-Chlorooctane			91.3 %	48.2	-134	4031926	MS	20-Mar-24	8015B		
Surrogate: 1-Chlorooctadecane			98.0 %	49.1	-148	4031926	MS	20-Mar-24	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Lobaratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR CORPUS CHRISTI TX, 78418	8		Project Num Project Num Project Mana Fax	ject: RAN Iber: NV(Iger: BR) (To:	ia salada DNM 2302/ 'An haney	. J-PAD FRA 001 /	AC TANK	2	Reported: 6-Mar-24 12	2:00
			PJN - 9 SII H2413	DEWALI 398-02 (Se	L - 4 0-8' pil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			88.4 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample sidentified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	3	Project: RANA SALADA J-PAD FRAC TANK Project Number: NVONM 2302/001 Project Manager: BRYAN HANEY Fax To:						Reported: 26-Mar-24 12:00		
			PJN - 9 SII H2413	DEWALI 398-03 (Se	L - 5 0-8' pil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	134		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	1860		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	218		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			124 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample sidentified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR CORPUS CHRISTI TX, 7841	8. 8		Proj Project Num Project Mana Fax	ject: RAN ber: NVC ger: BRY TO:	ia salada DNM 2302/ 'An haney	J-PAD FRA 001	AC TANK	2	Reported: 6-Mar-24 12	2:00
			PJN - 9 SII H2413	DEWALI 398-04 (Se	L - 6 0-8' pil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	14.8		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	380		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	24.8		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			89.0 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			91.5 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample sidentified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ALTAMIRA - USProject14229 PUNTA BONAIRE DR.Project NumbCORPUS CHRISTI TX, 78418Project ManagFaxFax	ect: RANA SALADA J-PAD FRAC TANK Reported: per: NVONM 2302/001 26-Mar-24 12:00 ger: BRYAN HANEY To:
--	--

Petroleum Hydrocarbons by GC FID - Quality Control Cardinal Laboratories

		D (6.1	G		N/DEC		DDD	
Analyte	Result	Keporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	KPD Limit	Notes
Analyte	Kesult	Liiiit	Units	Level	Kesuit	70KEC	Linits	KFD	Liiiit	INOICES
Batch 4031926 - General Prep - Organics										
Blank (4031926-BLK1)				Prepared: 1	19-Mar-24 A	Analyzed: 2	0-Mar-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	49.1-148			
LCS (4031926-BS1)				Prepared: 1	19-Mar-24 A	Analyzed: 2	0-Mar-24			
GRO C6-C10	216	10.0	mg/kg	200		108	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	428	10.0	mg/kg	400		107	77.6-123			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			
LCS Dup (4031926-BSD1)				Prepared: 1	19-Mar-24 A	Analyzed: 2	0-Mar-24			
GRO C6-C10	201	10.0	mg/kg	200		101	66.4-123	7.18	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.0	66.5-118	7.87	21	
Total TPH C6-C28	397	10.0	mg/kg	400		99.2	77.6-123	7.52	18.5	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	48.2-134			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148			

Batch 4032231 - General Prep - Organics

Blank (4032231-BLK1)	Pı	Prepared & Analyzed: 22-Mar-24				
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	38.8		mg/kg	50.0	77.6	48.2-134
Surrogate: 1-Chlorooctadecane	35.8		mg/kg	50.0	71.5	49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 26-Mar-24 12:00
--	--	--	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4032231 - General Prep - Organics										
LCS (4032231-BS1)				Prepared &	z Analyzed:	22-Mar-24	ļ			
GRO C6-C10	189	10.0	mg/kg	200		94.5	66.4-123			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	66.5-118			
Total TPH C6-C28	386	10.0	mg/kg	400		96.4	77.6-123			
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.8	48.2-134			
Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.7	49.1-148			
LCS Dup (4032231-BSD1)				Prepared &	z Analyzed:	22-Mar-24	Ļ			
GRO C6-C10	196	10.0	mg/kg	200		98.0	66.4-123	3.63	17.7	
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118	2.87	21	
Total TPH C6-C28	398	10.0	mg/kg	400		99.6	77.6-123	3.24	18.5	
Surrogate: 1-Chlorooctane	44.7		mg/kg	50.0		89.3	48.2-134			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.3	49.1-148			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitspewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey 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 $6^{\circ}\mathrm{C}$

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ge	12:	5 03	f 149)
	Lat	CA		
	Dora	スロ]	
	ator	NIN		
	IPS	AL	-	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Altar	mira			BILL	10		AN	ALYSIS REQ	UEST	ſ
Project Manager: Brya	an Haney			P.O. #:			_	_		
Address: 4229 Punta I	Bonaire			Company: Direc:	t Bill Permian		_			
City: Corpus Christi	State: TX Z	IP: 78412		Attn:				1		
Phone #: 361-658-312	6			Address:				1/24		
Project NVONM	1 2302/001			City:			_			
Project Name:	Rana Salada J-Pad Frac Tank Rel	ease		State: Zi	ip:		2	2		
Project Location:	Loving, New Mexico			Phone #:				1		
Sampler Name:	Higinio Gonzalez			Fax #:				Q		
COD I AD LICE ONLY			Mateix	DEFOREN	SVMDI INC		F	(
Lab I.D.		MP.	Matrix	PRESERV.	SAMPLING		RO	lilee		
H241398	Sample I.D.	RAB OR (C)OI		HER : D/BASE: COOL HER :		ᆔᆛᇛ	P T m D -	TPH GA	, , , , , , , , , , , , , , , , , , ,	
	PIN-9 8-1	C.S. C		X	80 42-81-1	730 X	×			
e	PIN-9 Scinal -4	0-8. 0	1 ×	X	30 42-81-1	332 +	X X	XV		
3	PIN-9 Sidewall-S	0-8°	1 X	× 3	18-24 0	334 \$	X X	X		
4	PSN-9 Siderall-6	0-8' C	1 X	X	18-24 08	*	×	XC		
		C		×						
			1 + X >	××	+	× :	x :			
		С	1 X	×		×	x x			
		C	1 X	×		×	x x			
A SASE NOTE: Liability and Damage applicable service. In no event st	a. Cardina's liability and client's exclusive remedy for any cle nall Cardina' be liable for incidental or consequential damas	C C In artising whether based in contra ges, including without limitation, b	1 X Amount of the amount of the	I X X Anthropological Anthropo	ses. All claims including those, t, its subsidiaries,	se for negligence and any other	X X ar cause whatsoever	shall be deemed waived u	niess made in writing and received by Cardinal within 30 days	after completio
elinquished By:	Date	North Recei	ved By:	N	Verb All R jimmy	al Result: Ye: esults are emailed. /.gonzalez@altamira	Please prov	de Email addres	11 Phone #: s: bryan.haney@altamira-us.com,	
Relinquished By:	Date	Recei	ved By:		REM	ARKS:	t di a	TT	4	
. 3/ 4	Time					UT2	100m	6 4		
Sampler - UPS - Bus -	other: Other: Corrected	Temp. °C -O. 40	Cool Intact	on CHECKE (Initia	ED BY: Turnare als) Rush	und Time: Standard	Observed Terry	(only) Sample Condition		
yoc			No No	PA	Corre	ction Factor 1140	£,		Ves Ves No Corrected Temp. "C	

e 10 of 10



March 28, 2024

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: RANA SALADA J-PAD FRAC TANK RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 16:53.

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

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



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 28-Mar-24 10:01

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
PJN - 9 8-8.5'	H241398-01	Soil	18-Mar-24 08:30	18-Mar-24 16:53	
PJN - 9 SIDEWALL - 4 4-8'	H241398-02	Soil	18-Mar-24 08:32	18-Mar-24 16:53	
PJN - 9 SIDEWALL - 5 4-8'	H241398-03	Soil	18-Mar-24 08:34	18-Mar-24 16:53	
PJN - 9 SIDEWALL - 6 4-8'	H241398-04	Soil	18-Mar-24 08:36	18-Mar-24 16:53	

03/26/24 - Client added TPH on 03/22/24 (see COC). This is the revised report and will replace the one sent on 03/22/24.

03/28/24 - Client added BTEX, Chloride and changed the sample IDs on -02, -03 and -04 (see COC). This is the 2nd revision of the report and will replace the one sent on 03/26/24.

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Lorotaries.

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	3		Project Num Project Num Project Mana Fax	ject: RAN ber: NVC ger: BRY To:	ia salada DNM 2302/ 'An haney	J-PAD FRA 001	AC TANK	Reported: 28-Mar-24 10:01		
			PJN H2413	- 9 8-8. 398-01 (So	5' oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	23.9		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B	
DRO >C10-C28*	173		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4031926	MS	20-Mar-24	8015B	
Surrogate: 1-Chlorooctane			91.3 %	48.2	-134	4031926	MS	20-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			98.0 %	49.1	-148	4031926	MS	20-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Lobaratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

٦



Analytical Results For:

ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418			Proj Project Num Project Mana Fax	ject: RAN ber: NVC ger: BRY To:	AC TANK	Reported: 28-Mar-24 10:01				
			PJN - 9 SII H2413	DEWALI 398-02 (So	2 - 4 4-8' oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2080		16.0	mg/kg	4	4032721	CT	27-Mar-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4032703	JH	27-Mar-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4032703	JH	27-Mar-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4032703	JH	27-Mar-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4032703	JH	27-Mar-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4032703	JH	27-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5	-134	4032703	JH	27-Mar-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			88.4 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with there approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	3		Proj Project Num Project Mana Fax	ject: RAN ber: NVC ger: BRY To:	ia salada DNM 2302/('An haney	J-PAD FRA 001	AC TANK	2	Reported: 8-Mar-24 1():01
			PJN - 9 SII H2413	DEWALI 398-03 (Se	2 - 5 4-8' pil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Petroleum Hydrocarbons by G	FID									
GRO C6-C10*	134		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	1860		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	218		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			124 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	3		Proj Project Num Project Mana Fax	ject: RAN ber: NVC ger: BRY To:	ia salada)nm 2302/('An haney	AC TANK ∣	Reported: 28-Mar-24 10:01			
			PJN - 9 SII H2413	DEWALI 398-04 (So	2 - 6 4-8' Dil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1960		16.0	mg/kg	4	4032721	CT	27-Mar-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4032703	ЛН	27-Mar-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4032703	ЛН	27-Mar-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4032703	ЛН	27-Mar-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4032703	ЛН	27-Mar-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4032703	ЛН	27-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5	-134	4032703	ЛН	27-Mar-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	14.8		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
DRO >C10-C28*	380		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
EXT DRO >C28-C36	24.8		10.0	mg/kg	1	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctane			89.0 %	48.2	-134	4032231	MS	22-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			91.5 %	49.1	-148	4032231	MS	22-Mar-24	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Labotaries.

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: Project Number: Project Manager: Fax To:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 28-Mar-24 10:01
--	--	--	------------------------------

Inorganic Compounds - Quality Control

		Cardir	1al Lab	oratories						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4032721 - 1:4 DI Water										
Blank (4032721-BLK1)				Prepared &	k Analyzed:	27-Mar-24				
Chloride	ND	16.0	mg/kg							
LCS (4032721-BS1)				Prepared &	z Analyzed:	27-Mar-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4032721-BSD1)				Prepared &	analyzed:	27-Mar-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey 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:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 28-Mar-24 10:01
--	--	--	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labora	tories
----------	--------	--------

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4032703 - Volatiles										
Blank (4032703-BLK1)				Prepared &	Analyzed:	27-Mar-24	Ļ			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			
LCS (4032703-BS1)				Prepared &	Analyzed:	27-Mar-24	ŀ			
Benzene	2.22	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.23	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.40	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.13	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.53	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			
LCS Dup (4032703-BSD1)				Prepared &	z Analyzed:	27-Mar-24	ŀ			
Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130	4.82	15.8	
Toluene	2.11	0.050	mg/kg	2.00		106	86-128	5.44	15.9	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128	4.97	16	
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89-129	4.58	16.2	
o-Xylene	2.03	0.050	mg/kg	2.00		101	86.1-125	4.88	16.7	
Total Xylenes	6.23	0.150	mg/kg	6.00		104	88.2-128	4.68	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Lordratories.

Celey 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:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 28-Mar-24 10:01
--	--	--	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories	Cardinal	Laboratories
-----------------------	----------	--------------

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4031926 - General Prep - Organics										
Blank (4031926-BLK1)				Prepared:	19-Mar-24 A	Analyzed: 2	20-Mar-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	49.1-148			
LCS (4031926-BS1)				Prepared:	19-Mar-24 A	Analyzed: 2	20-Mar-24			
GRO C6-C10	216	10.0	mg/kg	200		108	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	428	10.0	mg/kg	400		107	77.6-123			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			
LCS Dup (4031926-BSD1)				Prepared:	19-Mar-24 A	Analyzed: 2	20-Mar-24			
GRO C6-C10	201	10.0	mg/kg	200		101	66.4-123	7.18	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.0	66.5-118	7.87	21	
Total TPH C6-C28	397	10.0	mg/kg	400		99.2	77.6-123	7.52	18.5	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	48.2-134			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148			
Batch 4032231 - General Prep - Organics										
DI 1 (402021 DI 1/1)				D 16						

Blank (4032231-BLK1)	Ι	Prepared & Analyzed: 22	-Mar-24			
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	38.8		mg/kg	50.0	77.6	48.2-134
Surrogate: 1-Chlorooctadecane	35.8		mg/kg	50.0	71.5	49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keene, Lab Director/Quality Manager



ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418	Project: Project Number: Project Manager: Fax To:	RANA SALADA J-PAD FRAC TANK NVONM 2302/001 BRYAN HANEY	Reported: 28-Mar-24 10:01
--	--	--	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4032231 - General Prep - Organics										
LCS (4032231-BS1)				Prepared &	Analyzed:	22-Mar-24	ŀ			
GRO C6-C10	189	10.0	mg/kg	200		94.5	66.4-123			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	66.5-118			
Total TPH C6-C28	386	10.0	mg/kg	400		96.4	77.6-123			
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.8	48.2-134			
Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.7	49.1-148			
LCS Dup (4032231-BSD1)				Prepared &	z Analyzed:	22-Mar-24	ŀ			
GRO C6-C10	196	10.0	mg/kg	200		98.0	66.4-123	3.63	17.7	
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118	2.87	21	
Total TPH C6-C28	398	10.0	mg/kg	400		99.6	77.6-123	3.24	18.5	
Surrogate: 1-Chlorooctane	44.7		mg/kg	50.0		89.3	48.2-134			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.3	49.1-148			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of portis incidental subsidiaries, stubsidiaries, as subsidiaries, as subsidiaries, as subsidiaries, as subsidiaries, and the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey 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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whitstoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Lobaratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



April 05, 2024

BRYAN HANEY ALTAMIRA - US 14229 PUNTA BONAIRE DR. CORPUS CHRISTI, TX 78418

RE: RANA SALADA J-PAD FRAC TANK RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/01/24 8:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ALTAMIRA - US BRYAN HANEY 14229 PUNTA BONAIRE DR. CORPUS CHRISTI TX, 78418 Fax To:

Received:	04/01/2024	Sampling Date:	03/29/2024
Reported:	04/05/2024	Sampling Type:	Soil
Project Name:	RANA SALADA J-PAD FRAC TANK RELEA	Sampling Condition:	Cool & Intact
Project Number:	NVONM 2302/001	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NEW MEXICO		

Sample ID: PJN - 9 SIDEWALL - 5A (4-8.5') (H241652-01)

BIEX 8021B	ilig/	ĸġ	Allalyze	а Бу: ЈП					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2024	ND	1.90	95.0	2.00	3.97	
Toluene*	<0.050	0.050	04/03/2024	ND	1.91	95.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	1.83	91.4	2.00	3.72	
Total Xylenes*	<0.150	0.150	04/03/2024	ND	5.56	92.7	6.00	3.24	
Total BTEX	<0.300	0.300	04/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	04/03/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	209	105	200	0.942	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	213	107	200	0.843	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					
Surrogate: 1-Chlorooctane	116 %	6 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	121 %	6 49.1-148	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST INTEREDUCTIONS INTEREDUCTION INTEREDUCTION INTEREDUCTION INTEREDUCTION INTEREDUCTION INTEREDUCTION INTEREDUCTION INTEREDUCTION	FORM-006 R 3 2 10/07/		inquished By-	Sins or successors arising out of or related	A SE NOTE: Liability and Damages. Cardina Collicable service In no event shall Cardina	L.							PJI	Hornines Hornines	ah I D	Sampler Name: Hig	roject Location: Lov	roject Name: Rar	roject NVONM 240	hone #: 361-658-3126	ity: Corpus Christi	Address: 4229 Punta Bona	roject Manager: Bryan Ha	Company Name: Altamira	
	Corrected Temp	Time: O	Time:/	to the performance of services hereunder by Cardina Date:	I's fability and client's exclusive remedy for any claim aris								V-9 Sidewall-5A (4-8.5')	Sample I.D.		nio Gonzalez	ing, New Mexico	a Salda J-Pad Frac Tank Releas	1/001		State: TX ZIP	ire	aney	101 East Marland, Hob (575) 393-2326 FAX (oratories
	Sample Start	Received By:	302 Neceived by:	cluding without limitation, business interrupt , regardless of whethar such claim is based	ing whether based in contract or tort, shall be	C 1	C 1	C 1	C 1	C 1	C 1	C 1	C 1	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	Matri			æ			: 78412			bs, NM 88240 575) 393-2476	
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST BILL TO ANALYSIS REQUEST Contrect BIII Permian <		Lignen		ons, loss of use, or loss of profits incurre upon any of the above stated reasons or	Imited to the amount paid by the client for the	<	×	×××	× ×	×	×	×	X	SOIL DIL SLUDGE DTHER : ACID/BASE: CE / COOL	X PRESER	Fax #:	Phone #:	State:	Citu:	Address.	Atta	Company	00	Contract of the local division of the local	
STODY AND ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST H C H C H C H C H C H C H S Nme X X Nme X X </td <td>(Initials) Rush Correct</td> <td>REMA</td> <td>Verba All Re Jimmy</td> <td>d by client, its subsidiaries, rotherwise</td> <td>he analyses. All claims including those</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CON 47/67/6</td> <td>200 PC/6C/E</td> <td></td> <td>RV. SAMPLING</td> <td></td> <td></td> <td>Zip:</td> <td></td> <td></td> <td>- Direct Dill Fernian</td> <td>" Direct Bill Dormion</td> <td>BILL TO</td> <td></td> <td>CHAIN-OF-CL</td>	(Initials) Rush Correct	REMA	Verba All Re Jimmy	d by client, its subsidiaries, rotherwise	he analyses. All claims including those							CON 47/67/6	200 PC/6C/E		RV. SAMPLING			Zip:			- Direct Dill Fernian	" Direct Bill Dormion	BILL TO		CHAIN-OF-CL
ANALYSIS REQUEST	Ind Time: Standard	Standing	I Result: Yes sults are emailed. Please gonzalez@altamira-us.com	e normegnyenne and any orner cause w								>		× m - æ I P -											JSTODY AND /
DUEST	asteria (only) Sample Condition d Temp. "C	141	vo Add'l F provide Email address:	atsoever shall be deerned waived unles								×		ס בר – ס ייי מ		T	C						ANALYSIS REQ		NALYSIS REC
	Ves Ves		Phone #: bryan.haney@attamira-us	is made in writing and received by Car																			UEST		QUEST

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

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

District III

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

District IV

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

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

QUESTIONS

Action 333581

QUESTIONS					
Operator:	OGRID:				
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920				
300 N. Marienfeld St Ste 1000	Action Number:				
Midland, TX 79701	333581				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2304339443
Incident Name	NAPP2304339443 NOVO RANA SALADA PAD-J FRAC TANK RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

lease answer all the questions in this group.					
Site Name	NOVO RANA SALADA PAD-J FRAC TANK RELEASE				
Date Release Discovered	02/11/2023				
Surface Owner	Federal				

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Crude Oil Released (bbls) Details Not answered.

Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 10 BBL Recovered: 8 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	leak occurred from hole in valve at frac tank

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

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

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 333581

QUESTIONS (continued) Operator: OGRID: NOVO OIL & GAS NORTHERN DELAWARE, LLC 372920 300 N. Marienfeld St Ste 1000 Action Number: Midland, TX 79701 333581 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response					
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.				
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remed actions to date in the follow-up C-141 submission. If remedial efforts have been successfully comple Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure of	lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative or ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.				
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.					
I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager				

Email: montgomery.floyd@permianres.com

Date: 04/25/2024

I hereby agree and sign off to the above statement

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

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

District III

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

District IV

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

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

QUESTIONS, Page 3

Page 144 of 149

Action 333581

QUESTIONS (continued)					
Operator:	OGRID:				
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920				
300 N. Marienfeld St Ste 1000	Action Number:				
Midland, TX 79701	333581				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

QUESTIONS

Site Characterization

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

release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions the	at apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report der	nonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling	(Provide the highest observable value for each, in m	lligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	4560
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	7564
GRO+DRO	(EPA SW-846 Method 8015M)	7170
BTEX	(EPA SW-846 Method 8021B or 8260B)	22.9
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 N which includes the anticipated time	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence		02/12/2023
On what date will (or did) the final sampling or liner inspection occur		03/29/2024
On what date will (or was) the remediation complete(d)		04/05/2024
What is the estimated surface area (in square feet) that will be reclaimed		1952
What is the estimated volume (in cubic yards) that will be reclaimed		308
What is the estimated surface area (in square feet) that will be remediated		1952
What is the estimated volume (in cubic yards) that will be remediated		308
These estimated dates and measur	ements are recognized to be the best guess or calculation at th	e time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed	I remediation measures may have to be minimally adjusted in a	accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.
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 aia Dr. Canta Co. NM 97505

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

.

QUESTIONS, Page 4

Action 333581

OUESTI	ONS (continued)	
QUEST		
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920	
300 N. Marienfeld St Ste 1000	Action Number:	
Midland, TX 79701	333581	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	Νο	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Νο	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
I hereby certify that the information given above is true and complete to the best of my k to report and/or file certain release notifications and perform corrective actions for releast the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com Date: 04/25/2024	

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

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

District III

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

District IV

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

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

QUESTIONS, Page 5

Action 333581

QUESTIONS (continued)	
Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 333581
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Deferral Requests Only	

Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

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

District III

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

District IV

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

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

QUESTIONS, Page 6

Action 333581

QUESTIONS (continued)		
Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920 Action Number: 333581 Action Type:	
QUESTIONS	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
Sampling Event Information		

Last sampling notification (C-141N) recorded	323042
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/18/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	250

Remediation	Closure	Request
-------------	---------	---------

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	1952	
What was the total volume (cubic yards) remediated	308	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	1952	
What was the total volume (in cubic yards) reclaimed	308	
Summarize any additional remediation activities not included by answers (above)	Remediation and reclamation on pad is complete.	
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		

I hereby agree and sign off to the above statement	Name: Montgomery Floyd
	Title: Environmental Manager
	Email: montgomery.floyd@permianres.com
	Date: 04/25/2024

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

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

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

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

QUESTIONS, Page 7

Action 333581

Page 148 of 149

QUESTIONS (continued)		
Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920	
	Action Number: 333581	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Reclamation Report		

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission

No

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

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

District III

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

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

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

CONDITIONS

Action 333581

Condition Date 6/4/2024

Operator: OGRID: NOVO OIL & GAS NORTHERN DELAWARE, LLC 372920 300 N. Marienfeld St Ste 1000 Action Number: Midland, TX 79701 333581 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

CONDITIONS

Created By Condition

scwells None