<u>District I</u> 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Released to Imaging: 3/21/2024 2:28:20 PM

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

## **Release Notification**

Responsible	Party: Novo	Oil & Gas (Ear	thstone Energy, In	c.) OGRID:	372920
Contact Nan	ne: Kevin H	art		Contact T	elephone: 432-212-2081
Contact ema	il: Kevin.Ha	art@permianres	.com	Incident #	# (assigned by OCD): nAPP2328543797
	ling address: exas 79701	600 N. Marienfo	eld, Suite 1000,		
			Location of	of Release S	Source
atitude <u>32.3</u>	341990		Longitude (NAD 83 in decin	-104.0859 mal degrees to 5 dec	
Site Name: (	Culebra Blu	ff CTB3 Produce	ed Water Release	Site Type	: Produced Water Line (production) – off page
Date Release	Discovered:	10/10/2023		API# (if ap	pplicable)
Unit Letter	Section	Township	Range	Cou	inty
M	4	T22S		Eddy	
	Materia	l(s) Released (Select a		Volume of	ic justification for the volumes provided below)
Crude Oi	1	Volume Releas	sed (bbls):		Volume Recovered (bbls):
Produced Water Volume Released (bbls): Estimated 50		d 50	Volume Recovered (bbls): Estimated 25		
Is the concentration of dissolved chloric produced water >10,000 mg/l?		nloride in the	⊠ Yes □ No		
	ondensate Volume Released (bbls)			Volume Recovered (bbls)	
Condens	Natural Gas Volume Released (Mcf)		sed (Mcf)		Volume Recovered (Mcf)
					Volume/Weight Recovered (provide units

the right-of-way and adjacent property.

Volume of release was estimated based on approximate visual impacts and dimensions (approximately 60' x 80' area).

Was this a major release

### State of New Mexico Oil Conservation Division

Incident ID	nAPP2328543797
District RP	
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as defined by 19.15.29.7(A) NMAC?	An estimated 50-barrels of produced water was released. The 50-barrels for a minimum release.	exceeds the threshold	
⊠ Yes □ No			
NOTE: Novo Oil & Ga Email notification of the Email notification of the	otice given to the OCD? By whom? To whom? When and by what means (phone, et as assets were recently purchased by Earthstone.  The release was provided by Kevin Hart to the NMOCD Spill Hotline on October a release was also provided by Bryan Haney to Crisha Morgan (BLM) on October Altamira-US (on behalf of Earthstone Energy) submitted notification of a rele October 12, 2023.	11, 2023 at 11:00am. ober 12, 2023, at 11:37	
	Initial Response		
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that wou	ld result in injury	
The source of the rele	ease has been stopped.		
	is been secured to protect human health and the environment.		
Released materials ha	ecoverable materials have been removed and managed appropriately.		
Released materials ha All free liquids and re If all the actions described All actions above have	d above have not been undertaken, explain why:  been completed. One call has been completed and excavation is scheduled	to begin on	
Released materials ha  All free liquids and re  If all the actions described  All actions above have 10/13/2023.  Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containmen	d above have <u>not</u> been undertaken, explain why:  been completed. One call has been completed and excavation is scheduled  [AC the responsible party may commence remediation immediately after discovery of a narrative of actions to date. If remedial efforts have been successfully completed at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for classical efforts.	of a release. If remediation dor if the release occurred losure evaluation.	
Released materials ha  All free liquids and re  If all the actions described  All actions above have 10/13/2023.  Per 19.15.29.8 B. (4) NM  has begun, please attach a  within a lined containmen  I hereby certify that the informed actions all operators are republic health or the environn failed to adequately investigated addition, OCD acceptance of	d above have <u>not</u> been undertaken, explain why:  been completed. One call has been completed and excavation is scheduled  IAC the responsible party may commence remediation immediately after discovery of a narrative of actions to date. If remedial efforts have been successfully completed	of a release. If remediation d or if the release occurred losure evaluation.  rsuant to OCD rules and eleases which may endanger should their operations have th or the environment. In	
Released materials ha  All free liquids and re f all the actions described  All actions above have land 10/13/2023.  Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containment hereby certify that the information all operators are republic health or the environmatical to adequately investigated to adequately investigated to acceptance of and/or regulations.	d above have <u>not</u> been undertaken, explain why:  been completed. One call has been completed and excavation is scheduled  [AC the responsible party may commence remediation immediately after discovery of a narrative of actions to date. If remedial efforts have been successfully completed at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for clarmation given above is true and complete to the best of my knowledge and understand that pur required to report and/or file certain release notifications and perform corrective actions for rement. The acceptance of a C-141 report by the OCD does not relieve the operator of liability state and remediate contamination that pose a threat to groundwater, surface water, human healtry acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for complete to the operator of the complete to th	of a release. If remediation d or if the release occurred losure evaluation.  resuant to OCD rules and eleases which may endanger should their operations have th or the environment. In	
Released materials ha  All free liquids and re  If all the actions described  All actions above have 10/13/2023.  Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containment of the environment of the env	d above have <u>not</u> been undertaken, explain why:  been completed. One call has been completed and excavation is scheduled  [AC the responsible party may commence remediation immediately after discovery of a narrative of actions to date. If remedial efforts have been successfully completed at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for claration given above is true and complete to the best of my knowledge and understand that pur required to report and/or file certain release notifications and perform corrective actions for rement. The acceptance of a C-141 report by the OCD does not relieve the operator of liability state and remediate contamination that pose a threat to groundwater, surface water, human health a C-141 report does not relieve the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for compliance with any other than the complete to the operator of responsibility for complete to the operator of the complete to the operator of th	of a release. If remediation d or if the release occurred losure evaluation.  rsuant to OCD rules and eleases which may endanger should their operations have th or the environment. In	
Released materials ha  All free liquids and re f all the actions described  All actions above have 10/13/2023.  Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containment hereby certify that the informed all operators are regulations all operators are regulation, OCD acceptance of and/or regulations.  Printed Name: Kevin  Signature:	d above have <u>not</u> been undertaken, explain why:  Deen completed. One call has been completed and excavation is scheduled an arrative of actions to date. If remedial efforts have been successfully completed area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for clarmation given above is true and complete to the best of my knowledge and understand that purequired to report and/or file certain release notifications and perform corrective actions for rement. The acceptance of a C-141 report by the OCD does not relieve the operator of liability state and remediate contamination that pose a threat to groundwater, surface water, human health a C-141 report does not relieve the operator of responsibility for compliance with any other to the late.  Title: Sr. HSE Advisor  Date: October 12, 2023	of a release. If remediation d or if the release occurred losure evaluation.  rsuant to OCD rules and eleases which may endanger should their operations have th or the environment. In	
Released materials ha  All free liquids and re  If all the actions described  All actions above have 10/13/2023.  Per 19.15.29.8 B. (4) NM has begun, please attach a within a lined containment of the environment of the env	d above have <u>not</u> been undertaken, explain why:  Deen completed. One call has been completed and excavation is scheduled an arrative of actions to date. If remedial efforts have been successfully completed area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for clarmation given above is true and complete to the best of my knowledge and understand that purequired to report and/or file certain release notifications and perform corrective actions for rement. The acceptance of a C-141 report by the OCD does not relieve the operator of liability state and remediate contamination that pose a threat to groundwater, surface water, human health a C-141 report does not relieve the operator of responsibility for compliance with any other to the late.  Title: Sr. HSE Advisor  Date: October 12, 2023	of a release. If remediation d or if the release occurred losure evaluation.  rsuant to OCD rules and eleases which may endanger should their operations have th or the environment. In	

If YES, for what reason(s) does the responsible party consider this a major release?

Received by OCD: 12/16/2023 12:00:20 AM

### State of New Mexico Oil Conservation Division

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs) 47	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	⊠ Yes □ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil		

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<u>C</u>	Characterization Report Checklist: Each of the following items must be included in the report.	
716/2023 12:00:20 AM	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	3/21/2024 2:28:20 PM
opla an	the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remedian. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling distribution must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling distribution must include a proposed remediation. The closure criteria for a release are contained in Tal. 15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.	ing plan 🦉



## State of New Mexico Oil Conservation Division

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

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: Kevin Hart

Title: Sr. HSE Advisor

Date: November 28, 2023

Telephone: 432-212-2081

OCD Only

Received by: Date: Date: Date:

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



## State of New Mexico Oil Conservation Division

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

must be notified 2 days prior to liner inspection)

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

## Closure

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office

☐ Laboratory analyses of final sampling (Note: appropriate (	ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re-	replete to the best of my knowledge and understand that pursuant to OCD rules entain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability difference contamination that pose a threat to groundwater, surface water, e of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially e conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Kevin Hart	Title: Sr. HSE Advisor
Signature:	Date: November 28, 2023
email: _Kevin.Hart@permianres.com	Telephone: 432-212-2081
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfactly of compliance with any other federal, state, or local laws a	arty of liability should their operations have failed to adequately investigate and acce water, human health, or the environment nor does not relieve the responsible and/or regulations.  Date:  Title:
Closure Approved by:	Date:
Printed Name:	Title:
	3

District I
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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

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 275070

#### **QUESTIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

Location of Release Source		
Please answer all the questions in this group.		
Site Name	Culebra Bluff CTB3 Produced Water Release	
Date Release Discovered	10/10/2023	
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			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

Nature and Volume of Release					
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.					
Crude Oil Released (bbls) Details	Not answered.				
Produced Water Released (bbls) Details	Cause: Normal Operations   Pipeline (Any)   Produced Water   Released: 50 BBL   Recovered: 25 BBL   Lost: 25 BBL.				
Is the concentration of dissolved 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)	Not answered.				

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**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 275070

**QUESTIONS** (continued)

Operator:	OGRID:	
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920	
1001 West Wilshire Blvd	Action Number:	
Oklahoma City, OK 73116	275070	
	Action Type:	
	[NOTIFY] Notification Of Release (NOR)	

#### 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 19.15.29.7(A) NMAC	Yes, major release.				
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more				
If YES, was immediate notice given to the OCD, by whom	Kevin Hart with Earthstone				
If YES, was immediate notice given to the OCD, to whom	NMOCD Spill Hotline email				
If YES, was immediate notice given to the OCD, when	10/11/2023				
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email to hotline				
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.					

Initial Response					
The responsible party must undertake the following actions immediately unless they could create a 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	All 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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

ACKNOWLEDGMENTS

Action 275070

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:	
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920	
1001 West Wilshire Blvd	Action Number:	
Oklahoma City, OK 73116	275070	
	Action Type:	
	[NOTIFY] Notification Of Release (NOR)	

#### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
✓	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
✓	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.
V	I acknowledge the fact that 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.
V	I acknowledge the fact that, 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.

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

CONDITIONS

Action 275070

#### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Created	Condition	Condition Date
Ву		
bhaney	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2023

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State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

## **Release Notification**

### **Responsible Party**

Responsible Party: Novo Oil & Gas (Earthstone Energy, Inc.)	OGRID : 372920
Contact Name: Chris Martin	Contact Telephone: 432-894-0004
Contact email: cmartin@earthstoneenergy.com	Incident # (assigned by OCD): nAPP2328543797
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, Texas 79701	

			Location	of R	elease So	ource		
Latitude 32.3	341990°		Longitude (NAD 83 in de		-104.08598 grees to 5 decim			
Site Name: C	Culebra Blu	ff CTB3 Produce	d Water Releas	se	Site Type:	Produced Wat	er Line (production) – off p	ad
Date Release	Discovered	: 10/10/2023 at 1	11:00 am		API# (if applicable)			
Unit Letter	Section	Township	Range		Coun	ty		
Р	33	T22S	R28E	Eddy	/			
Surface Owne.		Federal Tr	Nature and	d Vol	ume of F		volumes provided below)	
Crude Oil		Volume Release		ii caicuiai	ions of specific	Volume Recov		
Non-	Water	Volume Release	ed (bbls): 50			Volume Recovered (bbls): 25		
Is the concentration of dissolved chloriproduced water >10,000 mg/l?			chloride	e in the	Yes No	)		
Condensa	ite	Volume Release	ed (bbls)			Volume Recovered (bbls)		
☐ Natural G	☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide unit		le units)		Volume/Weigh	nt Recovered (provide units)			
Cause of Rela	The w		e right-of-way a	ınd adja	acent prope	erty. Volume o	approximate release of 50 of release was estimated ea).	

Received by OCD: 12/16/2023 12:00:20/AM State of New Mexico
Page 2 Oil Conservation Division

Page deeof 335

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

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?	An estimated 50-barrels of produced water was released. The 50-barrels exceeds the threshold for
	a minimum release.
Yes No	
NOTE: Novo Oil & Ga Email notification of the Email notification of the	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Is assets were recently purchased by Earthstone.  Is release was provided by Kevin Hart to the NMOCD Spill Hotline on October 11, 2023 at 11:00am.  Is release was also provided by Bryan Haney to Crisha Morgan (BLM) on October 12, 2023, at 11:37  Altamira-US (on behalf of Earthstone Energy) submitted notification of a release (NOR) on the October 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
The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
All actions above have 10/13/2023.	been completed. One call has been completed and excavation is scheduled to begin on
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kevin	Hart Title: <u>Sr HSE Advisor</u>
Signature:	Date: <u>October 12, 2023</u>
email: _khart@earthsto	neenergy.com Telephone: <u>432-212-2081</u>
OCD Only	
Received by: Shelly We	Date: 10/12/2023

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

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 275212

#### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275212
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/12/2023



Re: Culebra Bluff CTB3 Water Release (10/22/2023) Novo Oil & Gas (Earthstone Energy, Inc.)

Incident ID: nAPP2328543797

Site Characterization

#### **Water Sources and Course Determination**

#### **Wellhead Protection Discussion**

During remediation 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.

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).

#### **Significant Water Source Discussion**

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

#### **Scaled Site Map**

A scaled site map (grid and sample location) are provided as a separate attachment.

#### **Field Data**

A site assessment was not conducted. Novo determined it to be more productive to transition directly to remediation efforts.

#### **Soil Contaminant Concentration**

Samples were not collected or analyzed for site characterization. Soil sample data associated with the remediation confirmation soil sampling are provided as a separate attachment.

Page 1 of 2



#### Water Depth Determination

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

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

#### **Boring Logs**

A site assessment was not conducted. Soil borings were not installed. However, the soil boring log for the depth to groundwater determination is provided as a separate attachment.

#### **Photographs**

A photographic log is provided as a separate attachment.

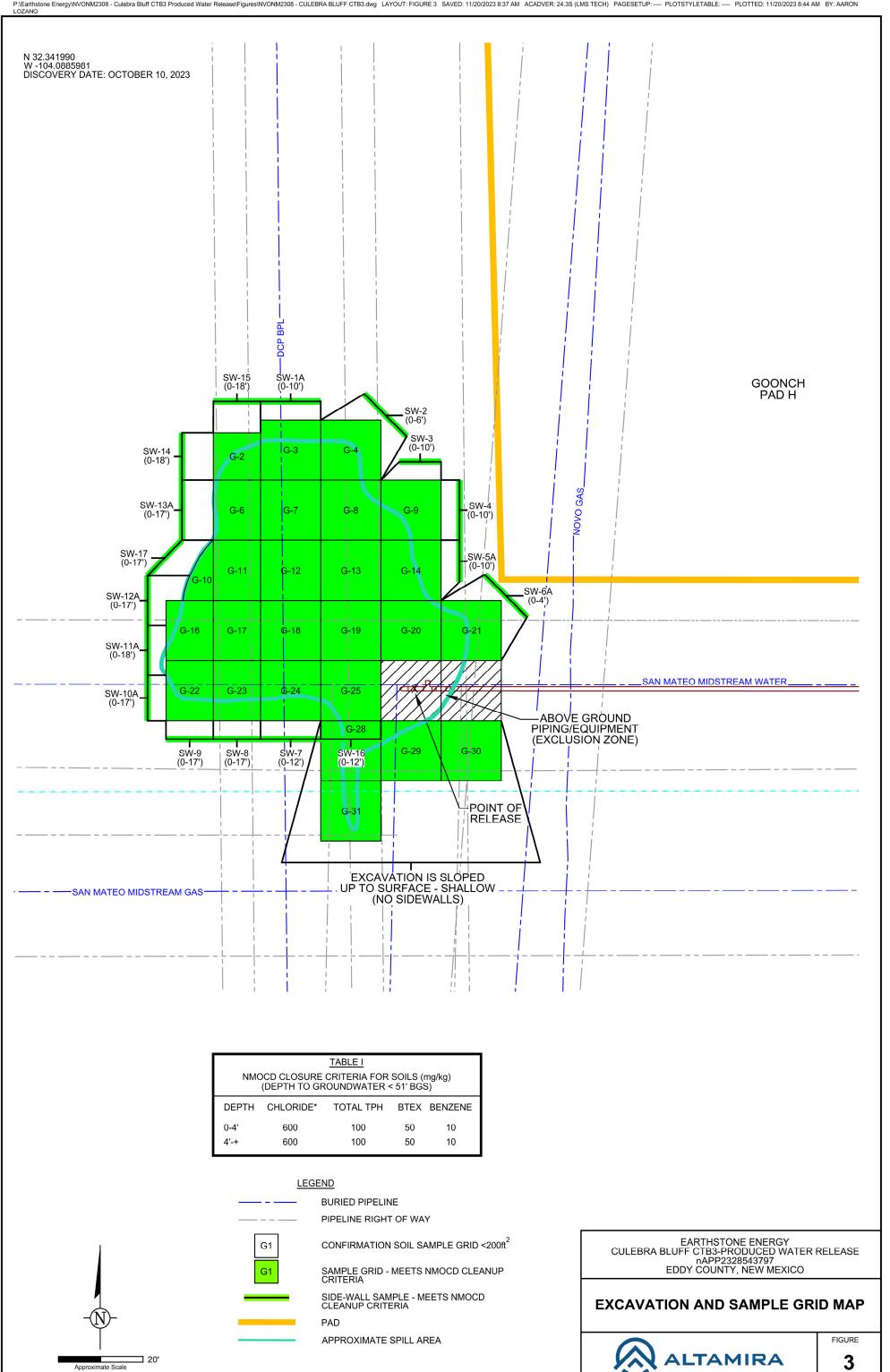
#### **Topographic/Aerial Figures**

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#### **Laboratory Data**

Samples were not collected or analyzed for site characterization. Sample and lab data are provided in the Final Site Closure Report.

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) N=\*:OFF=\*REF\*
P:\Earthstone Energy\NVONM2308 - Culebra Bluff CTB3 Produced Water Release\Figures\NVONM2308 - CULEBRA BLUFF CTB3.dwg LAYOUT: FIGURE 3 SAVED: 11/20/2023 8:37 AM ACADVER: 24.3S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/20/2023 8:44 AM BY: AARON LOZANO





Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)

NOVO OII & Gas (Earthstone Energy

Incident ID: nAPP2328543797

Site Characterization

#### **Water Sources and Course Determination**

#### **Wellhead Protection Discussion**

During remediation 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.

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Page 1 of 2



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

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#### **Photographs**

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#### **Topographic/Aerial Figures**

A topographic map and aerial figure area provided as a separate attachment.

#### **Laboratory Data**

Samples were not collected or analyzed for site characterization. Sample and lab data are provided in the Final Site Closure Report.

## 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797

Near Loving, Eddy County, New Mexico

Analyte Method Table I - Closure Criteria (0-4')		Chloride 4500-Cl-B 600	BTEX 8021B 50	Benzene 8021B 10	TPH (C6-C10) 8015M -	8015M -	TPH (>C28-36) 8015M -	TPH 8015M 100
Table I - Closure C	riteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date							
G-2 (10-10.5')	10/21/2023	688	<0.30	<0.05	<10	<10	<10	<10
G-2 (17-17.5')	10/24/2023	80	-	-	-	-	-	-
G-3 (10-10.5')	10/20/2023	512	<0.30	<0.05	<10	<10	<10	<10
G-4 (6-6.5')	10/17/2023	144	<0.30	<0.05	<10	<10	<10	<10
G-6 (2-2.5')	10/17/2023	3,920	<0.30	<0.05	<10	<10	<10	<10
G-6 (17-17.5')	10/21/2023	32	<0.30	<0.05	<10	<10	<10	<10
G-7 (10-10.5')	10/20/2023	80	<0.30	<0.05	<10	<10	<10	<10
G-8 (6-6.5')	10/17/2023	1,880	<0.30	<0.05	<10	<10	<10	<10
G-8 (10-10.5')	10/20/2023	16	-	-	-	-	-	-
G-9 (10-10.5')	10/20/2023	16	<0.30	<0.05	<10	<10	<10	<10
G-10 (17-17.5')	10/21/2023	528	<0.30	<0.05	<10	<10	<10	<10
G-11 (8-8.5')	10/17/2023	5,120	<0.30	<0.05	<10	<10	<10	<10
G-11 (17-17.5')	10/21/2023	384	<0.30	<0.05	<10	<10	<10	<10
G-12 (18-18.5')	10/21/2023	16	<0.30	<0.05	<10	<10	<10	<10
G-13 (18-18.5')	10/21/2023	240	<0.30	<0.05	<10	<10	<10	<10
G-14 (4-4.5')	10/17/2023	3,360	<0.30	<0.05	<10	<10	<10	<10
G-14 (10-10.5')	10/20/2023	16	-	-	-	-	-	-
G-16 (3-3.5')	10/17/2023	6,000	<0.30	<0.05	<10	<10	<10	<10
G-16 (17-17.5')	10/21/2023	656	<0.30	<0.05	<10	<10	<10	<10
G-16 (18-18.5')	10/24/2023	784	-	-	-	-	-	-
G-16 (18-18.5')	10/26/2023	368	-	-	-	-	-	-

ALTAMIRA-US 1 of 4

# 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797 Near Loving, Eddy County, New Mexico

Analyte Method Table I - Closure Criteria (0-4')		Chloride 4500-Cl-B 600	BTEX 8021B 50	Benzene 8021B 10	TPH (C6-C10) 8015M -	TPH (>C10-28) 8015M -	TPH (>C28-36) 8015M -	TPH 8015M 100
Table I - Closure Cr	iteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date							
G-17 (3-3.5')	10/17/2023	10,400	<0.30	<0.05	<10	<10	<10	<10
G-17 (17-17.5')	10/21/2023	80	<0.30	<0.05	<10	<10	<10	<10
G-18 (18-18.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10	<10
G-19 (18-18.5')	10/21/2023	48	<0.30	<0.05	<10	<10	<10	<10
G-20 (4-4.5')	10/17/2023	8,800	<0.30	<0.05	<10	<10	<10	<10
G-20 (12-12.5')	10/20/2023	304	-	-	-	-	-	-
G-21 (4-4.5')	10/17/2023	320	<0.30	<0.05	<10	<10	<10	<10
G-22 (17-17.5')	10/21/2023	160	<0.30	<0.05	<10	<10	<10	<10
G-23 (17-17.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10	<10
G-24 (12-12.5')	10/20/2023	256	<0.30	<0.05	<10	<10	<10	<10
G-25 (12-12.5')	10/20/2023	192	<0.30	<0.05	<10	<10	<10	<10
,								
G-28 (0.5-1')	10/24/2023	96	<0.30	<0.05	<10	<10	<10	<10
G-29 (0.5-1')	10/24/2023	464	<0.30	<0.05	<10	<10	<10	<10
/ /-	10/01/0000							
G-30 (0.5-1')	10/24/2023	112	<0.30	<0.05	<10	<10	<10	<10
G-31 (0.5-1')	10/24/2023	768	<0.30	<0.05	<10	<10	<10	<10
G-31 (0.3-1)	10/26/2023	32	-	-	-	-	-	-
, , , , , ,								
SW-1 (0-10')	10/24/2023	656	<0.30	<0.05	<10	<10	<10	<10
SW-1A (0-10')	10/26/2023	528	-	-	-	-	-	-
SW-2 (0-6')	10/24/2023	96	<0.30	<0.05	<10	<10	<10	<10
SW-3 (0-10')	10/24/2023	160	<0.30	<0.05	<10	<10	<10	<10

ALTAMIRA-US 2 of 4

# 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797 Near Loving, Eddy County, New Mexico

	Chloride	BTEX	Benzene	TPH (C6-C10)	TPH (>C10-28)	TPH (>C28-36)	TPH
Method		8021B	8021B	8015M	8015M	8015M	8015M
riteria (0-4')	600	50	10	-	-	-	100
riteria (>4')	600	50	10	-	-	-	100
Sample Date							
10/24/2023	112	<0.30	<0.05	<10	<10	<10	<10
10/24/2023	1,120	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	560	-	-	-	-	-	-
10/24/2023	704	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	160	-	-	-	-	-	-
10/24/2023	176	<0.30	<0.05	<10	<10	<10	<10
10/24/2023	336	<0.30	<0.05	<10	<10	<10	<10
10/24/2023	560	<0.30	<0.05	<10	<10	<10	<10
10/24/2023	1,340 256	<0.30	<0.05	<10 -	<10 -	<10 -	<10
10/24/2023	5,760 144	<0.30	<0.05	<10 -	<10	<10 -	<10 -
10/24/2023	1,680	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	240	-	-	-	-	-	-
10/24/2023	720	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	208	-	-	-	-	-	-
10/24/2023	208	<0.30	<0.05	<10	<10	<10	<10
10/24/2023	144	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	240	<0.30	<0.05	<10	<10	<10	<10
10/26/2023	176	<0.30	<0.05	<10	<10	<10	<10
	Sample Date   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/24/2023   10/26/2023   10/24/2023   10/26/2023   10/26/2023   10/24/2023   10/26/2023   10/24/2023   10/26/2023   10/24/2023   10	### ### ##############################	### ### ##############################	riteria (0-4') riteria (2-4') 600 50 10  Sample Date  10/24/2023 112 <0.30 <0.05  10/26/2023 560 - 10/26/2023 160 - 10/24/2023 160 - 10/24/2023 176 <0.30 <0.05  10/24/2023 176 <0.30 <0.05  10/24/2023 336 <0.30 <0.05  10/24/2023 560  10/24/2023 160  10/24/2023 176 <0.30 <0.05  10/24/2023 336 <0.30 <0.05  10/24/2023 560  10/24/2023 560  10/24/2023 560  10/24/2023 560  10/24/2023 560  10/24/2023 560  10/24/2023 1,340  10/24/2023 1,340  10/24/2023 1,680  10/26/2023 1,680  10/26/2023 240  10/26/2023 208  10/26/2023 208  10/24/2023 208  10/24/2023 10/26/2023 208  10/24/2023 208  10/24/2023 208  10/24/2023 208  10/24/2023 208  10/24/2023 208	######################################	A500-Cl-B	

ALTAMIRA-US 3 of 4

## 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release

Incident ID: nAPP2328543797 Near Loving, Eddy County, New Mexico

Analyte		Chloride	BTEX	Benzene	TPH (C6-C10)	TPH (>C10-28)	TPH (>C28-36)	TPH
Method		4500-CI-B	8021B	8021B	8015M	8015M	8015M	8015M
Table I - Closure Criteria (0-4')		600	50	10	-	-	-	100
Table I - Closure Criteria (>4')		600	50	10	-	-	-	100
Sample ID	Sample Date							

#### 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 less than 51 feet below ground surface

ALTAMIRA-US 4 of 4



Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)

Incident ID: nAPP2328543797

Site Characterization

#### **Water Sources and Course Determination**

#### **Wellhead Protection Discussion**

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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).

#### **Significant Water Source Discussion**

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

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Page 1 of 2



#### **Water Depth Determination**

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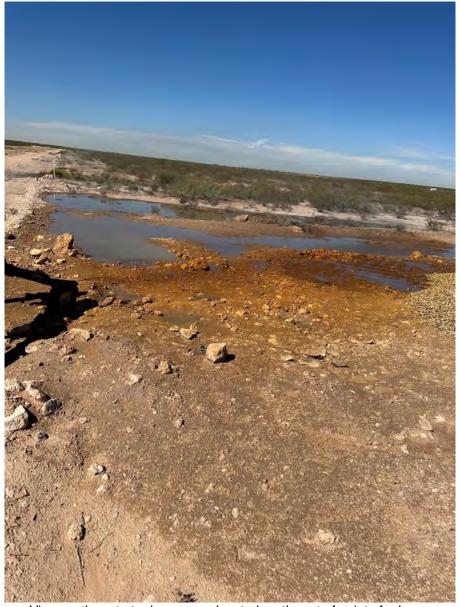
#### **Laboratory Data**

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		BORING RECOR	D		SB	-		
GEOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				SAMPLE	1	REMARKS
ONII	(ILLI)	32,3420774 OUTSIDE -104.0856686 DELINEATION	55	GRAPHIC LOG	NUMBER	OVM READING RECOVERY	ОЕРТН	BACKGROUND OVM READING: SOIL: Q PPM AIR: _ PPM
	5 —	0-1' Brown Sandy Sut (ML) & Cauche, DRY 1-3' BROWN SANDY SILT-SILT (ML), HARD DRY 3-8' TAN-WHITE STANDY SILTY (ML)-ROCK INTER BEDDED	mL mL					0
	10 —	8-18' TAN SILTY SAND (SM), SOME RUCK HARD, DRY, USRY FINE GRAIN	ES		(	0	<u> </u>	10-
	15 —		SM		(	) 		15
	20 —	18-35' BRUWN SILTY SAMOY CLAY (CL) STIFF, DAY, LUW PLASTICITY			C	D		20
	25 —	SLT MOIST @ 35' BGJ BECOMING DARKER BROWN IN COLUR	CL			5		25
	30 —			1-1-1-1		3		30
	35							35 —
		CME CONTINUOUS AUGER SAMPLER — WATER TABLE (TIME OF BORING)  STANDARD PENETRATION TEST  LABORATORY TEST LOCATION  PROJ  UNDISTURBED SAMPLE  + PENETROMETER (TONS/SQ. FT.)	JECT NAME lovo - Culebra JECT NUMBE NG NUMBER	R	NM2104		Water	Line Release
	3700 West R	Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058	RILLED BY:	1 25 Direct P	12 02 ush/Air F	Rotary TE D		

		BORING RECO	ORD			S	1-8	(	CONT	-)
GEOLOG. UNIT	DEPTH (FEET)	LITHOLOGIC DESCRIPTION				_	SAM	IPLE		REMARKS
ONI		32.3470774 -104.0856686		UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	NUMBER	OVM READING	RECOVERY	ОЕРТН	BACKGROUND OWN READING: SOIL: PPM AIR: PPM
	35 - - - 40 -	35-46' DORIC BROWN - ORANGE BROWN SICTY CURY (CL), HARD-STIFF, SIT. MUIST, MEDIUM PURSOCIAM	1		10000		0			35 45
	45	47-50' ORANGE/BRUWN SAND, FINE 644 WET-SATURATED, WELL SURTED	ANS)				0			45
	50 — —						0	1		50 -
	<u>***</u>	TD= 58' B6S								505
	25 -	Sitmples: 0-1'@ 957 2-3"@ 1004 3-4'@ 1006 5-6'@ 1008 9-10'@ 1015			111111111111111111111111111111111111111					25
	<del>38</del> —									50
	35 —									35
		CME CONTINUOUS AUGER SAMPLER  WATER TABLE (TIME OF BORING)  STANDARD PENETRATION TEST  LABORATORY TEST LOCATION  UNDISTURBED SAMPLE  PENETROMETER (TONS/SQ. FT.)  WATER TABLE (24 HOURS)  NR: NO RECOVERY	PROJECT Novo	- Culebra NUMBE	R NV	ONM2		luced	Wate	r Line Release
	3700 West	Robinson St., Suite 200 • Norman, Oklahoma 73072 • 405-701-5058	DATE DR DRILLING ME DRILLE LOGGE CHECKE	THOD:  TO BY:  TO BY:  TO BY:	Z5 Direct	<b>7027</b> Push//	Air Ro	RAWING		

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release



October 10, 2023 – view northwest at point of release and release area northwest of release



View of pipe point of release and release area to the northwest



View north at release area



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface imact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area



View showing complete backfilled area

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=\*;OFF=\*REF\*
P:Earthstone Energy:NVONM2308 - Culebra Bluff CTB3 Produced Water Release\Figures:NVONM2308 - CULEBRA BLUFF CTB3.dwg LAYOUT: FIGURE 2 SAVED: 11/20/2023 8:37 AM ACADVER: 24.3S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/20/2023 8:42 AM BY: AARON LOZANO



EARTHSTONE ENERGY CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE nAPP2328543797 EDDY COUNTY, NEW MEXICO

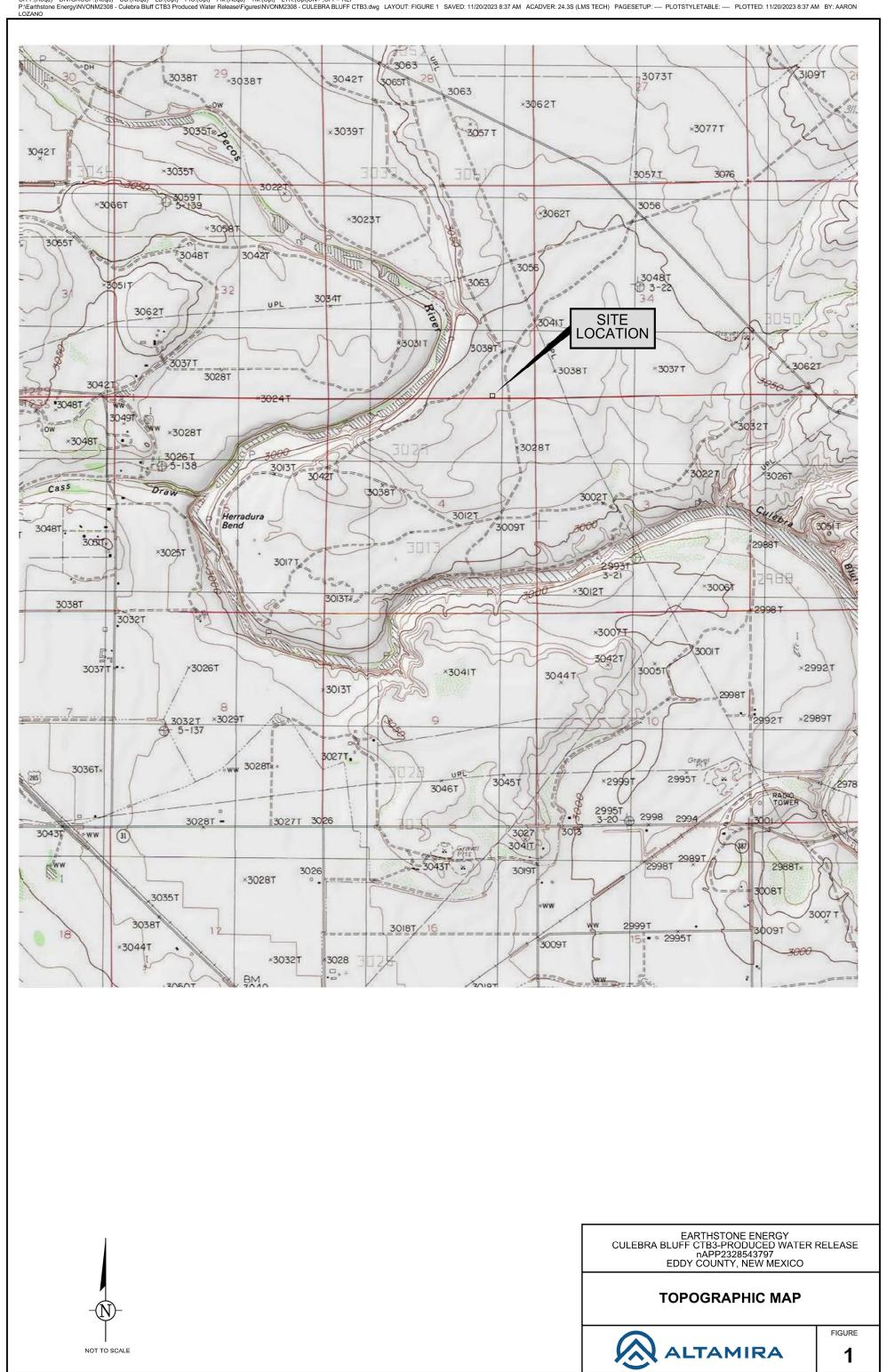
SITE LOCATION MAP



FIGURE

NOT TO SCALE

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P:\Earlingtone Energy\NVONM2308 - Culebra Bluff CTB3 Produced Water ReleaselFigures\NVONM2308 - CULEBRA BLUFF CTB3.dwg LAYOUT: FIGURE 1 SAVED: 11/20/2023 8:37 AM ACADVER: 24.3S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/20/2023 8:37 AM BY: AARON





Re: Culebra Bluff CTB3 Water Release (10/22/2023)
Novo Oil & Gas (Earthstone Energy, Inc.)

Incident ID: nAPP2328543797

Site Characterization

#### **Water Sources and Course Determination**

#### **Wellhead Protection Discussion**

During remediation 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.

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).

#### **Significant Water Source Discussion**

Altamira conducted a review of the significant watercourses nearest the release area. The Pecos River is located approximately 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 miles southeast of the Site area. No other watercourses were identified within a 0.5-mile radius of the release area.

#### **Scaled Site Map**

A scaled site map (grid and sample location) are provided as a separate attachment.

#### **Field Data**

A site assessment was not conducted. Novo determined it to be more productive to transition directly to remediation efforts.

#### **Soil Contaminant Concentration**

Samples were not collected or analyzed for site characterization. Soil sample data associated with the remediation confirmation soil sampling are provided as a separate attachment.

Page 1 of 2



#### **Water Depth Determination**

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

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

#### **Boring Logs**

A site assessment was not conducted. Soil borings were not installed. However, the soil boring log for the depth to groundwater determination is provided as a separate attachment.

#### **Photographs**

A photographic log is provided as a separate attachment.

#### **Topographic/Aerial Figures**

A topographic map and aerial figure area provided as a separate attachment.

#### **Laboratory Data**

Samples were not collected or analyzed for site characterization. Sample and lab data are provided in the Final Site Closure Report.

Release Response Action Completion & Closure Report Incident ID No. nAPP2328543797 Earthstone/Novo Oil &Gas Culebra Bluff CTB3 Produce Water Release Discovery Date: October 10, 2023 Eddy County, New Mexico

Prepared for: Earthstone/Novo Oil & Gas Northern Delaware, LLC 600 N. Marienfeld, Suite 1000 Midland, Texas 79701

Prepared By:

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

**December 04, 2023** 



## **Table of Contents**

LIST C	F FIGU	JRES	II
LIST C	F TAB	LES	II
LIST C	F APP	ENDICES	II
ACRO	NYMS	AND ABBREVIATIONS	II
1.0	INTRO	DUCTION	1
	1.1	RELEASE DETAILS AND INITIAL RESPONSE	1
	1.2	NOTIFICATION	1
	1.3	PROJECT OBJECTIVES	1
	1.4	REGULATORY FRAMEWORK	2
2.0	STANI	DARD OF CARE, LIMITATIONS, & RELIANCE	2
	2.1	STANDARD OF CARE	2
	2.2	ADDITIONAL LIMITATIONS	2
3.0	RECE	PTOR AND WATER SOURCES SURVEY	2
	3.1	WELLHEAD PROTECTION DISCUSSION	2
	3.2	SIGNIFICANT WATER SOURCE DISCUSSION	3
	3.3	DETERMINATION OF DEPTH TO GROUNDWATER	3
4.0	REME	DIATION	3
	4.1	CONFIRMATION SOIL SAMPLING AND ANALYSIS PLAN	3
	4.2	SOIL REMEDIATION ACTIVITIES	4
	4.3	WASTE MANAGEMENT	5
5.0	DATA	RESULTS & EVALUATION	5
	5.1	CONFIRMATION SOIL SAMPLING RESULTS	5
	5.2	FINAL DATA EVALUATION	6
6.0	REST	DRATION, RECLAMATION & RE-VEGETATION	6
	6.1	RESTORATION AND RECLAMATION ACTIVITIES	6
7.0	CONC	PLUSIONS	7

**LIST OF FIGURES** 

Figure 1 Topographic Map

Figure 2 Site Location Map

Figure 3 Excavation and Sample Grid Map

**LIST OF TABLES** 

Table 1 Analytical Data Summary – Post Excavation Soil Samples (mg/kg)

**LIST OF APPENDICES** 

Appendix A Notification and Agency Correspondence

Appendix B Photographic Documentation

Appendix C Field Documentation

Appendix D Waste Management Documentation

Appendix E Laboratory Analytical Data Reports

**ACRONYMS AND ABBREVIATIONS** 

Altamira Altamira-US, LLC

Novo Oil & Gas Northern Delaware, 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

Earthstone/Novo Oil & Gas Northern Delaware, LLC (Novo Oil & Gas) (OGRID No. 372920) operate a facility known as the Culebra Bluff CTB3 facility located in Unit M, Section 4, T22S, R28E, in Eddy County, New Mexico. On October 10, 2023, at approximately 11:00am, field personnel for Earthstone/Novo Oil & Gas discovered a release of produced water associated with a produced water line at latitude 32.341990°, longitude -104.085981° (Figure 1 and Figure 2). This Release Response Action & Closure Report has been prepared to document initial response actions, remediation, and site closure efforts.

#### 1.1 Release Details and Initial Response

On October 10, 2023, at approximately 11:00 am, Earthstone/Novo personnel identified a release of produced water from a weld connection on an above-ground produced water line section. Approximately fifty (50) barrels of produced water released onto the right-of-way (ROW) and adjacent off-pad area surrounding the pipeline point of release, mainly to the north and northwest of the point of release. The release was contained to the immediate area. Upon discovery of the release, Novo was able to shut in flow to the line. The release affected an area of approximately 60' x 80' (Figure 3) and was irregular shaped.

Novo estimated approximately 50 barrels of produced water were released; and approximately 25 barrels of produced water was recovered using vacuum trucks and initial removal of affected soil. The release volume was estimated based on the approximate dimensions of the surface release area.

#### 1.2 Notification

Based on the quantity of fluid released being more than 25 barrels, the release was determined to be a major release per 19.15.29.1.B NMAC. Notification was provided by Kevin Hart to the NMOCD hotline via email on October 11, 2023. The initial online release notification was submitted to the NMOCD on October 12, 2023. The OCD issued incident ID# nAPP2328543797. Form C-141 Release Notification was prepared and submitted online with payment on October 12, 2023.

Initial notification was provided by Bryan Haney to the BLM via email on October 12, 2023. Written notification of the release (BLM Major Undesirable Event Report) was also provided to the BLM on October 12, 2023. Copies of the C-141 Release Notification form and BLM Major Undesirable Event Report are provided in **Appendix A**.

#### 1.3 Project Objectives

The project objectives were to: 1) conduct initial release cleanup efforts, 2) physically remove affected soil containing constituent concentrations that exceed the NMOCD cleanup levels, and 3) restore and reclaim the remediated areas.

#### 1.4 Regulatory Framework

The Site is subject to environmental regulatory oversight by the NMOCD. Notification, assessment, and response action activities were conducted in accordance with guidelines outlined in 19.15.29 NMAC. The Site is located on property owned by 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.

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 0.23 miles northwest of the Site. The release did not result in any adverse effects to the Pecos River. Salt Lake is located approximately 5 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

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

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

#### 4.0 REMEDIATION

Based on the volume of the release (major – estimated 50-barrels), Earthstone/Novo determined the best course of action was to move directly to remediation of the affected soil located near the area of Culebra Bluff CTB3 adjacent to the Goonch Pad-H. Affected soil remediation was conducted between October 13 through October 31, 2023. Affected soil was excavated or hydro-excavated and loaded into trucks for transport and disposal at the 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). 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. Site photographs are provided in **Appendix B**. Field documentation is provided in **Appendix C**.

#### 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-of-custody documents and laboratory reports are provided in **Appendix E**.

Release Response Action Completion & Closure Report
Earthstone/Novo Oil & Gas – Culebra Bluff CTB3 Produced Water Release

Discovery Date: October 10, 2023

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

#### 4.2 Soil Remediation Activities

Altamira and Earthstone/Novo provided notification to the OCD via email (Appendix A) on October 12, 2023 regarding the intent to conduct soil remediation and confirmation soil sampling at the Novo Culebra Bluff CTB3 release area. This in addition to the initial agency notifications of immediate release response activities.

During October 2023, Novo conducted soil remediation and reclamation activities on the at the release Site associated with the Culebra Bluff CTB3 facility and produced water line (off-pad area refer to **Figure 3**). The visible release footprint was irregular shaped and appeared to be contained near the off-pad area located generally southwest of the Novo Goonch Pad-H. A GPS grade survey system was used to identify the approximate boundary of the release area in relation to the facility 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 consisted of native reddish silty sand and abundant consolidated and unconsolidated rock with sparse native vegetation.

Rouge Services was contracted by Earthstone/Novo to conduct the soil excavation, loading, and hauling. Affected mechanical soil excavation and hydro-excavation began on October 13, 2023, and continued through October 26, 2023. 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. Soil within each grid was initially excavated until visual signs of moisture were no longer observed. Grids located south of the point of release did not appear heavily impacted and were excavated and sampled to a shallower depth (generally 1 foot) and sloped to the surface on the south edge. Excavation along the pipeline and above ground equipment was conducted to the best extent practicable to avoid physical pipeline failure. Following excavation at each grid, confirmation soil samples were collected and submitted to Cardinal Laboratories for analysis. Based on initial analytical data results, the excavation area was extended vertically and laterally until each grid floor and each side-wall exhibited TPH, BTEX, and chloride concentrations less than the Closure Criteria levels.

Confirmation soil samples were collected within each 200 square foot grid and consisted of a 5-point composite sample (generally one from the center and one outward near each corner area). Confirmation soil samples were initially analyzed for chlorides, TPH, and BTEX as described in section 4.1 of this report. Analytical results for each confirmation grid sample were evaluated to

Discovery Date: October 10, 2023

the most stringent criteria per *Table I – Closure Criteria for Soils Impacted by a Release*. Analytical data results are presented on **Table 1**. If analytical data results showed a chemical constituent exceeded the Closure Criteria Level, soil in that particular grid or sidewall area 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.

#### 4.3 Waste Management

As described above, affected soil associated with the release was transported to the 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). A New Mexico Non-Hazardous Oilfield Waste Manifest was prepared for each truck load of soil material. Manifests are provided in **Appendix D**.

#### 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 at the site was investigated and determined to be present at approximately 46.5 feet below ground surface. The most stringent closure criteria action levels were utilized to evaluate analytical results for remediation and site closure. Analytical results are provided in **Table 1** and Laboratory Analytical Data Report are provided in **Appendix E**.

As previously described, work and confirmation soil sample grids were measured and marked on 200 square foot or less grids. The overall grid area was setup in a conservative manner so that grids included known and suspected affected soil areas, but also overlapped into known unaffected soil areas. Side-walls were set up so that each side-wall was within the 200 square foot requirement. The remediation area and associated sample grids are depicted on **Figure 3**. The Figure 3 depicts grids and side-walls with a green color that indicates the soil data for that grid met appliable Closure Criteria.

#### 5.1 Confirmation Soil Sampling Results

#### 5.1.1 Chlorides

Initial analytical results for chlorides exceeded 600 mg/kg in various soil samples from two feet to depths of 18-feet below ground surface. Higher chloride concentrations were observed in the shallower soil intervals and attenuated with depth. Analytical data showed that much of the chloride impacts to soil and rock were generally north and west of the point of release. Evaluation of chloride concentrations showed attenuation of chlorides with depth. With chlorides being the predominate constituent of concern, soil and rock excavation continued in depth until chloride concentrations were detected below 600 mg/kg. Since the excavation was extended in each direction beyond the physical indications of the release, chloride concentrations on the side-walls demonstrated concentrations less than 600 mg/kg. Remediation of chlorides in soil has been completed.

5.1.2 TPH

TPH was analyzed on all initial confirmation soil samples. Analytical results for all post excavation confirmation soil samples show TPH concentrations not detected 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. Analytical results for all grid and side-wall samples showed benzene and BTEX concentrations were not detected above the laboratory reporting limit. **Remediation of BTEX in soil has been completed.** 

#### 5.2 Final Data Evaluation

As described above, the known and probable affected soil areas were marked within 200 square foot grids for excavation and confirmation soil sampling. Following excavation activities to remove affected soil, confirmation soil samples were collected per the NMAC guidelines. Analytical data demonstrate remediation efforts (soil and rock removal) was successful. Concentrations of chlorides, TPH, and BTEX were either not detected above the laboratory reporting limit (non-detect), or if detected were below all applicable NMOCD Closure Criteria. As a result, no further response or remediation action is necessary.

#### 6.0 RESTORATION, RECLAMATION & RE-VEGETATION

#### 6.1 Restoration and Reclamation Activities

Following excavation activities, the excavated area was restored to its original condition. The excavated area was backfilled using native topsoil (similar to existing silty-sandy very fine-grained soil) from a landowner's property located near the remediated site area. Following placement and compaction of the new native topsoil, the area was graded and contoured to match the original topography of the site area.

On October 31, 2023, the Site was seeded using BLM seed mix #2 and a cover crop seed. Seed was planted using a seed drill and general broadcasting. Crisha Morgan of the BLM provided Altamira seed mix instructions in an email dated April 4, 2023.

"Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding".

Species planted in pounds of pure live seed\* per acre:

#### Species

	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

Following seeding the Site area was watered and followed by minor rainfall. Recent inspection of the BLM property remediated and reclaimed has not revealed any erosion.

#### 7.0 CONCLUSIONS

On October 10, 2023, Earthstone/Novo personnel identified a release of produced water from a weld connection on an above ground produced water line section. Approximately fifty (50) barrels of produced water released onto the right-of-way (ROW) and adjacent off-pad area surrounding the pipeline point of release. The release was contained to the immediate area. Upon discovery of the release, Novo was able to shut off flow to the produced water line.

Approximately 50-barrels of produced water was released; and approximately 25-barrels of produced water was initially recovered using vacuum trucks and removal of affected soil. During October 2023 Novo conducted remediation efforts to remove affected soil and restore the release area to pre-release conditions.

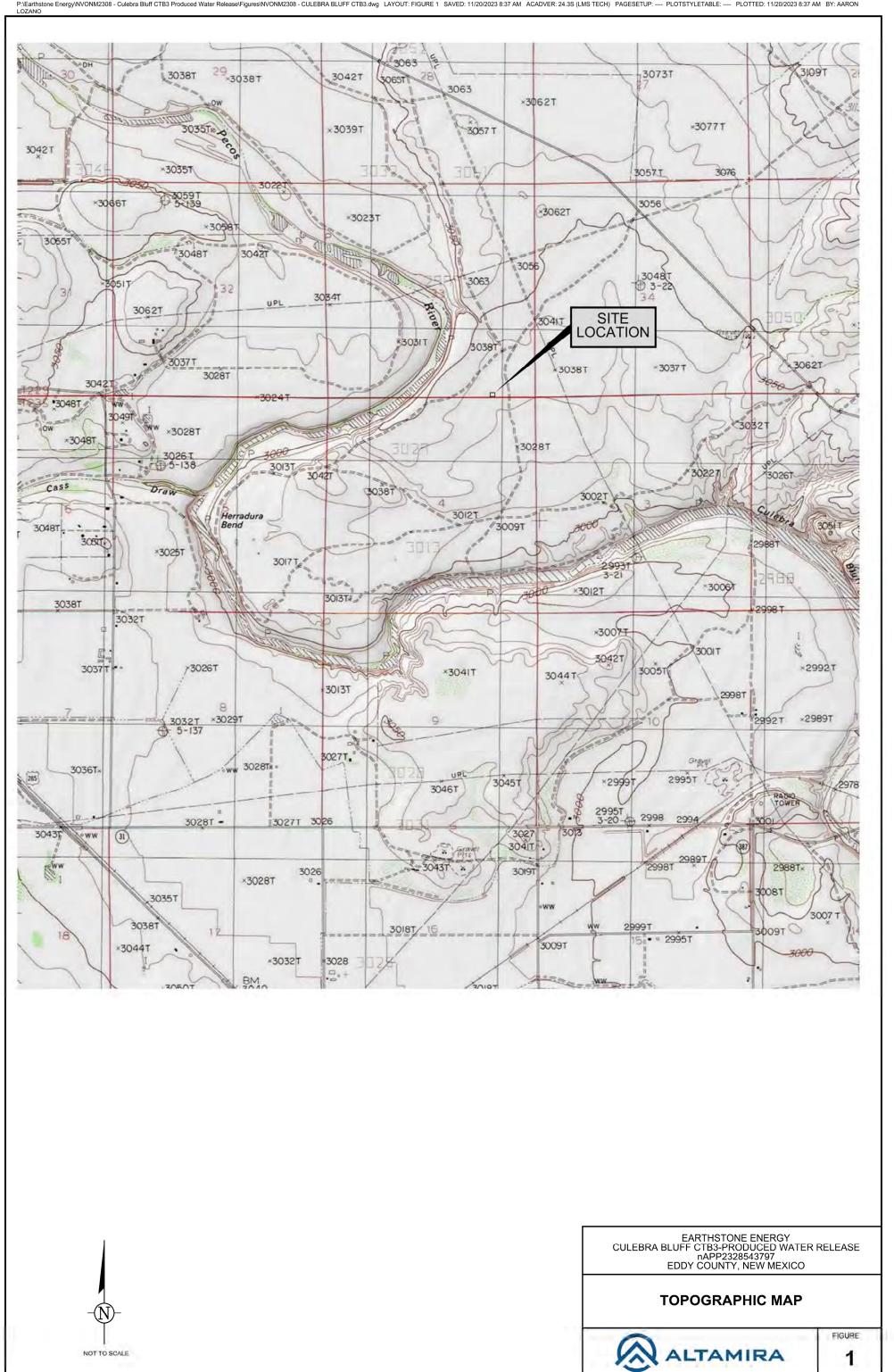
Analytical data results for post excavation confirmation soil validate the completion of affected soil removal from the release area.

- Excavation floor and sidewall samples were collected per NMOCD guidance.
- Soil on-site has been remediated to chloride levels less than 600 mg/kg.
- TPH and BTEX were not detected above the laboratory reporting limits.
- Reclamation and restoration efforts have been completed.
- No further response action/remediation is necessary for this release Site.
- Earthstone/Novo would respectfully like to request regulatory closure for Incident ID: nAPP2328543797.



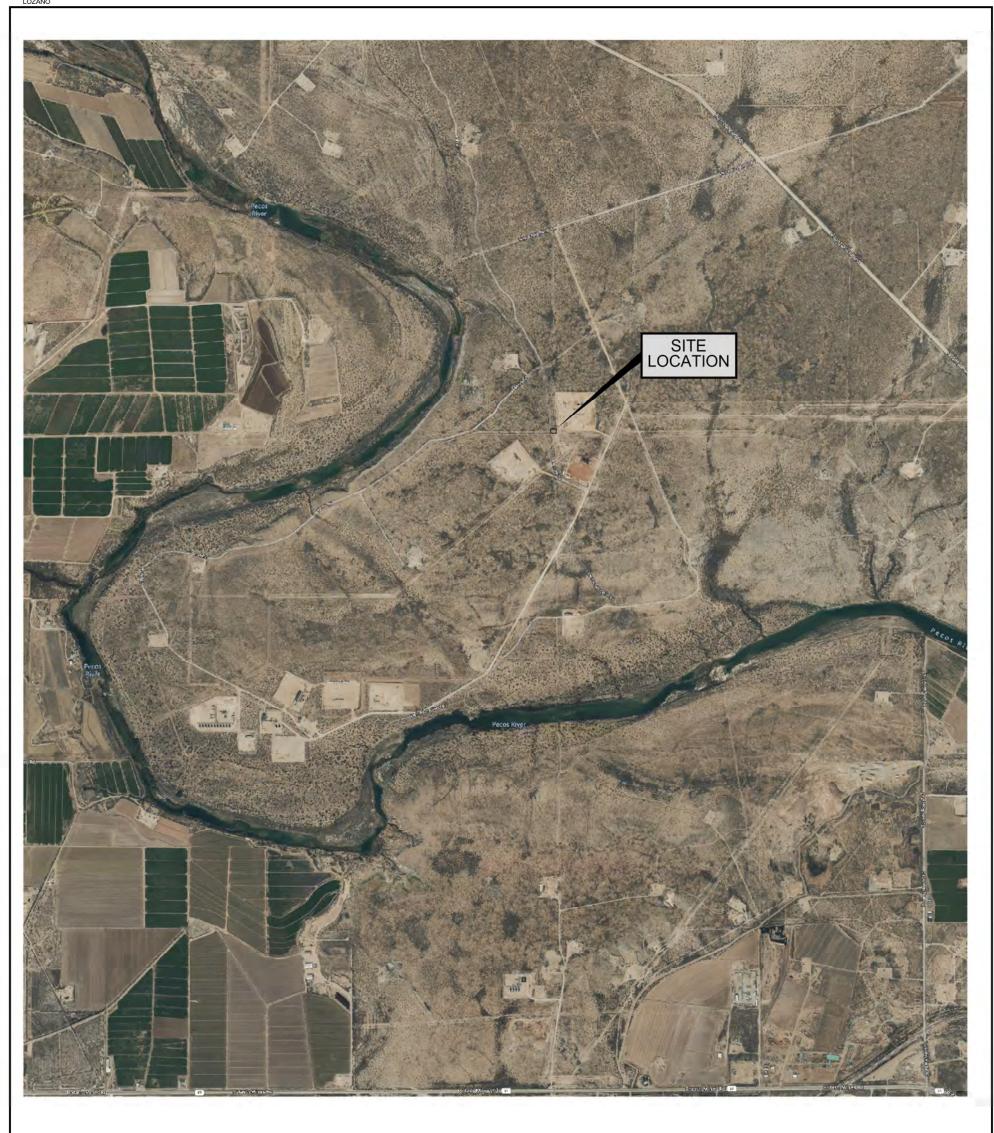
**FIGURES** 

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EARTHSTONE ENERGY CULEBRA BLUFF CTB3-PRODUCED WATER RELEASE nAPP2328543797 EDDY COUNTY, NEW MEXICO

**SITE LOCATION MAP** 



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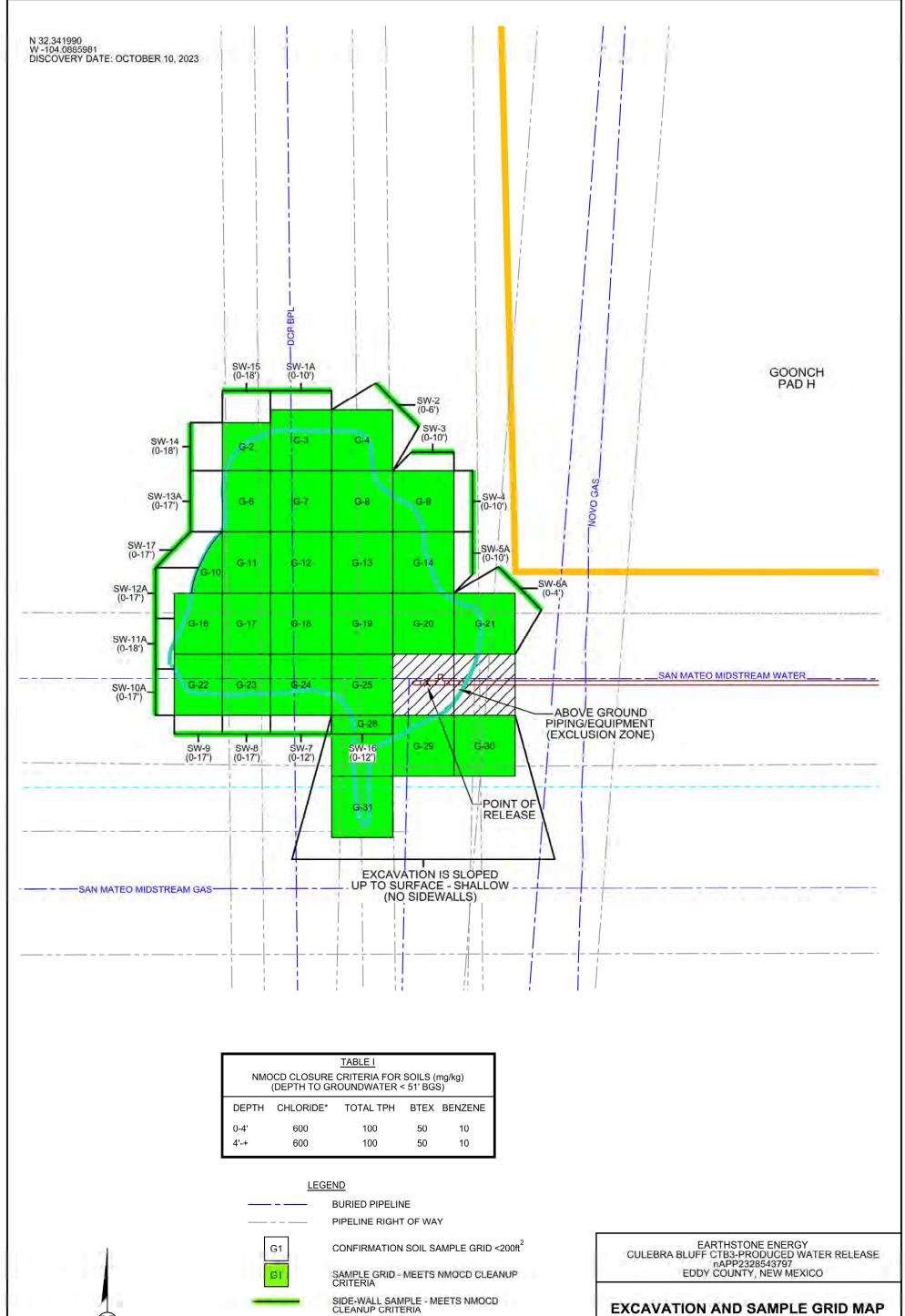
**EXCAVATION AND SAMPLE GRID MAP** 

ALTAMIRA

FIGURE

3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PIC:(Opt



PAD

APPROXIMATE SPILL AREA



**TABLE 1** 

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

# 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797 Near Loving, Eddy County, New Mexico

Analyte Method		Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure Criteria (0-4')		600 50		0 10	-	-	-	100
Table I - Closure C	riteria (>4')	600	50	10	-	-	-	100
Commis ID	Commis Data							
Sample ID	Sample Date							
G-2 (10-10.5')	10/21/2023	688	<0.30	<0.05	<10	<10	<10	<10
G-2 (17-17.5')	10/24/2023	80	-	-	-	-	-	-
G-3 (10-10.5')	10/20/2023	512	<0.30	<0.05	<10	<10	<10	<10
G-4 (6-6.5')	10/17/2023	144	<0.30	<0.05	<10	<10	<10	<10
G-6 (2-2.5')	10/17/2023	3,920	<0.30	<0.05	<10	<10	<10	<10
G-6 (17-17.5')	10/21/2023	32	<0.30	<0.05	<10	<10	<10	<10
G-7 (10-10.5')	10/20/2023	80	<0.30	<0.05	<10	<10	<10	<10
G-8 (6-6.5')	10/17/2023	1,880	<0.30	<0.05	<10	<10	<10	<10
G-8 (10-10.5')	10/20/2023	16	-	-	-	-	-	-
0.0 (40.40.51)	40/00/0000	40	0.00	0.05	40	40	40	40
G-9 (10-10.5')	10/20/2023	16	<0.30	<0.05	<10	<10	<10	<10
G-10 (17-17.5')	10/21/2023	528	<0.30	<0.05	<10	<10	<10	<10
G-10 (17-17.5)	10/21/2023	320	<0.30	₹0.05	<10	<10	210	<10
G-11 (8-8.5')	10/17/2023	5,120	<0.30	<0.05	<10	<10	<10	<10
G-11 (17-17.5')	10/21/2023	384	<0.30	<0.05	<10	<10	<10	<10
, ,								
G-12 (18-18.5')	10/21/2023	16	<0.30	<0.05	<10	<10	<10	<10
G-13 (18-18.5')	10/21/2023	240	<0.30	<0.05	<10	<10	<10	<10
G-14 (4-4.5')	10/17/2023	3,360	<0.30	<0.05	<10	<10	<10	<10
G-14 (10-10.5')	10/20/2023	16	-	-	-	-	-	-
G-16 (3-3.5')	10/17/2023	6,000	<0.30	<0.05	<10	<10	<10	<10
G-16 (17-17.5')	10/21/2023	656	<0.30	<0.05	<10	<10	<10	<10
G-16 (18-18.5')	10/24/2023	784	-	-	-	-	-	-
G-16 (18-18.5')	10/26/2023	368	-	-	-	-	-	-

ALTAMIRA-US 1 of 4

# 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797

Near Loving,	Eddy	County,	New	Mexico
--------------	------	---------	-----	--------

Analyte		Chloride	ВТЕХ	Benzene	TPH (C6-C10)		TPH (>C28-36)	ТРН
Method		4500-CI-B	8021B	8021B	8015M	8015M	8015M	8015M
Table I - Closure Criteria (0-4')		600	50	10	-	-	-	100
Table I - Closure C	riteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date							
G-17 (3-3.5')	10/17/2023	10,400	<0.30	<0.05	<10	<10	<10	<10
		·						
G-17 (17-17.5')	10/21/2023	80	<0.30	<0.05	<10	<10	<10	<10
G-18 (18-18.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10	<10
G-19 (18-18.5')	10/21/2023	48	<0.30	<0.05	<10	<10	<10	<10
G-20 (4-4.5')	10/17/2023	8,800	<0.30	<0.05	<10	<10	<10	<10
G-20 (12-12.5')	10/20/2023	304	-	-	-	-	-	-
G-21 (4-4.5')	10/17/2023	320	<0.30	<0.05	<10	<10	<10	<10
G-22 (17-17.5')	10/21/2023	160	<0.30	<0.05	<10	<10	<10	<10
G-23 (17-17.5')	10/21/2023	64	<0.30	<0.05	<10	<10	<10	<10
G-24 (12-12.5')	10/20/2023	256	<0.30	<0.05	<10	<10	<10	<10
G-25 (12-12.5')	10/20/2023	192	<0.30	<0.05	<10	<10	<10	<10
G-28 (0.5-1')	10/24/2023	96	<0.30	<0.05	<10	<10	<10	<10
G-29 (0.5-1')	10/24/2023	464	<0.30	<0.05	<10	<10	<10	<10
G-30 (0.5-1')	10/24/2023	112	<0.30	<0.05	<10	<10	<10	<10
G-31 (0.5-1')	10/24/2023	768	<0.30	<0.05	<10	<10	<10	<10
G-31 (1-1.5')	10/26/2023	32	-	-	-	-	-	-
·								
SW-1 (0-10')	10/24/2023	656	<0.30	<0.05	<10	<10	<10	<10
SW-1A (0-10')	10/26/2023	528	-	-	-	-	-	-
SW-2 (0-6')	10/24/2023	96	<0.30	<0.05	<10	<10	<10	<10
SW-3 (0-10')	10/24/2023	160	<0.30	<0.05	<10	<10	<10	<10

ALTAMIRA-US 2 of 4

# 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797 Near Loving, Eddy County, New Mexico

Analyte Method		Chloride 4500-CI-B	BTEX 8021B	Benzene 8021B	TPH (C6-C10) 8015M	TPH (>C10-28) 8015M	TPH (>C28-36) 8015M	TPH 8015M
Table I - Closure C	riteria (0-4')	600	50	10	-	-	-	100
Table I - Closure C	riteria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date							
Cample 15	Cample Date							
SW-4 (0-10')	10/24/2023	112	<0.30	<0.05	<10	<10	<10	<10
SW-5 (0-10')	10/24/2023	1,120	<0.30	<0.05	<10	<10	<10	<10
SW-5A (0-10')	10/26/2023	560	-	-	-	-	-	-
C)M C (O 41)	40/04/0000	704	0.00	0.05	40	40	40	40
SW-6 (0-4')	10/24/2023	704	<0.30	<0.05	<10	<10	<10	<10
SW-6A (0-4')	10/26/2023	160	-	-	-	-	-	-
SW-7 (0-12')	10/24/2023	176	<0.30	<0.05	<10	<10	<10	<10
SW-8 (0-17')	10/24/2023	336	<0.30	<0.05	<10	<10	<10	<10
SW-9 (0-17')	10/24/2023	560	<0.30	<0.05	<10	<10	<10	<10
, ,								
SW-10 (0-17')	10/24/2023	1,340	<0.30	<0.05	<10	<10	<10	<10
SW-10A (0-17')	10/26/2023	256	-	-	-	-	-	-
SW-11 (0-18')	10/24/2023	5,760	<0.30	<0.05	<10	<10	<10	<10
SW-11A (0-18')	10/26/2023	144	-	-	-	-	-	-
SW-12 (0-17')	10/24/2023	1,680	<0.30	<0.05	<10	<10	<10	<10
SW-12A (0-17')	10/26/2023	240	-	-	-	-	-	-
SW-13 (0-17')	10/24/2023	720	<0.30	<0.05	<10	<10	<10	<10
SW-13A (0-17')	10/26/2023	208	-	-	-	-	-	-
SW-14 (0-18')	10/24/2023	208	<0.30	<0.05	<10	<10	<10	<10
				_				
SW-15 (0-18')	10/24/2023	144	<0.30	<0.05	<10	<10	<10	<10
SW-16 (0-12')	10/26/2023	240	<0.30	<0.05	<10	<10	<10	<10
SW-17 (0-12')	10/26/2023	176	<0.30	<0.05	<10	<10	<10	<10
. ,								

ALTAMIRA-US 3 of 4

## 20 AM Table 1 - Analytical Data Summary Post Excavation Soil Samples (mg/kg) Novo Oil Gas/Earthstone - Culebra Bluff CTB3 Produced Water Release Incident ID: nAPP2328543797

Near Loving, Eddy County, New Mexico

Analyte		Chloride	BTEX	Benzene	TPH (C6-C10)	TPH (>C10-28)	TPH (>C28-36)	TPH
Method		4500-CI-B	8021B	8021B	8015M	8015M	8015M	8015M
Table I - Closure Cri	teria (0-4')	600	50	10	-	-	-	100
Table I - Closure Cri	teria (>4')	600	50	10	-	-	-	100
Sample ID	Sample Date							

#### 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 less than 51 feet below ground surface

ALTAMIRA-US 4 of 4



**APPENDIX A** Notification and Agency Correspondence

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 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 275070

#### **QUESTIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

ocation of Release Source		
Please answer all the questions in this group.		
Site Name Culebra Bluff CTB3 Produced Water Release		
Date Release Discovered	10/10/2023	
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		
Has this release reached or does it have a reasonable probability of reaching a watercourse	No		
Has this release endangered or does it have a reasonable probability of endangering public health	No		
Has this release substantially damaged or will it substantially damage property or the environment	No		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No		

erial(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: Normal Operations   Pipeline (Any)   Produced Water   Released: 50 BBL   Recovered: 25 BBL   Lost: 25 BBL.
Is the concentration of dissolved 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)	Not answered.

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

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## **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 275070

**QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### 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 19.15.29.7(A) NMAC	Yes, major release.			
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more			
If YES, was immediate notice given to the OCD, by whom	Kevin Hart with Earthstone			
If YES, was immediate notice given to the OCD, to whom	NMOCD Spill Hotline email			
If YES, was immediate notice given to the OCD, when	10/11/2023			
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email to hotline			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.				

Initial Response				
The responsible party must undertake the following actions immediately unless they could create a 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	All 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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

ACKNOWLEDGMENTS

Action 275070

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
V	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.
V	I acknowledge the fact that 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.
V	I acknowledge the fact that, 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.

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

CONDITIONS

Action 275070

#### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275070
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Created	Condition	Condition Date
Ву		
bhaney	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/12/2023

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2328543797
District RP	
Facility ID	
Application ID	275070

### **Release Notification**

### **Responsible Party**

Responsible Party: Novo Oil & Gas (Earthstone Energy, Inc.)	OGRID : 372920			
Contact Name: Chris Martin	Contact Telephone: 432-894-0004			
	<u>-</u>			
Contact email: cmartin@earthstoneenergy.com	Incident # (assigned by OCD): nAPP2328543797			
Contact mailing address: 600 N. Marienfeld, Suite 1000,				
Midland, Texas 79701				
T 4º CD	1 0			
Location of Release Source				

			Location	of Rele	ease So	ource	
Latitude 32.3	341990°		Longitude (NAD 83 in d	<u>-10</u> ecimal degree.	04.08598 s to 5 decim		
Site Name: C	Culebra Blu	ff CTB3 Produce	ed Water Releas	se Si	te Type:	Produced W	/ater Line (production) – off pad
Date Release	Date Release Discovered: 10/10/2023 at 11:00 am  API# (if		PI# (if appl	licable)			
Unit Letter	Section	Township	Range		Count	ty	
Р	33	T22S	R28E	Eddy			
			ribal Private		6.70		)
	Materia		Nature an	d Volun			he volumes provided below)
Crude Oi			Nature an	d Volun		ustification for t	the volumes provided below) covered (bbls)
☐ Crude Oi	1	l(s) Released (Select a	Nature an	d Volun		ustification for t Volume Rec	
	1	l(s) Released (Select a Volume Release Volume Release Is the concentra	Nature an all that apply and attacked (bbls) ed (bbls): 50 attion of dissolved	d Volum	or specific j	ustification for t Volume Rec	covered (bbls) covered (bbls): 25
	l Water	l(s) Released (Select a Volume Release Volume Release	Nature an all that apply and attaced (bbls) ed (bbls): 50 attion of dissolved >10,000 mg/l?	d Volum	or specific j	Volume Red	covered (bbls) covered (bbls): 25
⊠ Produced	Water atte	l(s) Released (Select a Volume Release Volume Release Is the concentra produced water	Nature an  all that apply and attace ed (bbls) ed (bbls): 50 attion of dissolved >10,000 mg/l? ed (bbls)	d Volum	or specific j	Volume Rec	covered (bbls) covered (bbls): 25 No

#### Cause of Release

The weld connection on the pipeline riser failed. This resulted in an approximate release of 50 barrels of produced water on the right-of-way and adjacent property. Volume of release was estimated based on approximate visual impacts and dimensions (approximately 60' x 80' area).

Received by OCD: 12/16/2023 12:00:20 AM State of New Mexico
Page 2 Oil Conservation Division

Page 62eof 335

Incident ID nAPP2328543797
District RP
Facility ID
Application ID 275070

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?	An estimated 50-barrels of produced water was released. The 50-barrels exceeds the threshold for
N. V. a. D. N.	a minimum release.
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	is assets were recently purchased by Earthstone. • release was provided by Kevin Hart to the NMOCD Spill Hotline on October 11, 2023 at 11:00am.
Email notification of the	release was also provided by Bryan Haney to Crisha Morgan (BLM) on October 12, 2023, at 11:37
am. Bryan Haney with online OCD system on	Altamira-US (on behalf of Earthstone Energy) submitted notification of a release (NOR) on the October 12, 2023.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
All actions above have 10/13/2023.	been completed. One call has been completed and excavation is scheduled to begin on
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f 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: Kevin	Hart Title: <u>Sr HSE Advisor</u>
Signature:	
email khart@earthsto	neenergy.com Telephone: 432-212-2081
Outriolol	
OCD Only	
Received by: Shelly Wal	Date: 10/12/2023
	2 WO 1V 1Z/ZVZJ

District I
1625 N. French Dr., Hobbs, NM 88240
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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 275212

#### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	275212
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/12/2023

From: OCDOnline@state.nm.us

To: Bryan Haney

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 275212

**Date:** Thursday, October 12, 2023 4:33:08 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#) nAPP2328543797, 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, Shelly Wells Environmental Specialist-A 505-469-7520 Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: <u>Auto-Receipt</u>
To: <u>Bryan Haney</u>

Subject: Transaction Receipt from EMNRD OCD for \$150.00 (USD)

**Date:** Thursday, October 12, 2023 4:05:10 PM

#### Order Information

Description: Goods or Services

PO Number BGVJH-231012-C-1410

**Shipping Information** 

#### **Billing Information**

Bryan Haney

14229 Punta Bonaire Dr

Corpus Christi, Texas 78418-6519

US

bryan.haney@altamira-us.com

3616583126

Total: \$150.00 (USD)

#### Payment Information

Date/Time: 12-Oct-2023 15:05:04 MDT

Transaction ID: 80071331924
Payment Method: Visa xxxx2795
Transaction Type: Purchase
Auth Code: 05143D

#### Merchant Contact Information

EMNRD OCD

Santa Fe, NM 87505

US

ocdfees@state.nm.us

From: OCDOnline@state.nm.us

To: Bryan Haney

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 275070

**Date:** Thursday, October 12, 2023 1:10:25 PM

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#) nAPP2328543797,

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 nAPP2328543797, 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



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

Report Type: Initial 24-Hour X				15-Day/Final □ C			Oth	ther/Follow-up □	
BLM Field Office: Carlsbad					State: New Mexico				
BLM Contact: Crisha Morgan Date of this Report: 10-12-2023									
Company Official Reporting	g to BLM:	Bryan	Haney (	Altami	ra-US on b	oehalf	of N	Novo/Ea	arthstone)
Operator: Novo Oil & Gas	Northern	Delawar	e, LLC	/ Earths	tone Energ	gy, Inc	Э.		
Date/Time of Occurrence: 1	0-10-2023	3 at 11:0	0am	Date/7	Гime BLM	l Noti	fied:	10-12-	-2023 11:37am
Field/Unit Name: Purple Sa	ige - Wolf	fcamp		Lease Number:					
State: NM County: Eddy			Twp:	T22S	722S Rng: R28E Sec: 4			Qtr:	
Lat 32.341990, Long -104.0	85981								
Surface Ownership: Federal Feder			l: X	Indian: □		State: □			FEE □
	Тур	e and R	elevant	Details	s of Event				
Oil Spill □ Oil/Water S			11 🗆			Venting□		Toxic Fluid Spill □	
Saltwater Spill X Other Spill (Specif			pecific)		Blowout □			Fire □	
Injury □ Fatality □					Property Damage □			Explosion	
Nature and Cause of Event:									
The weld connection on the	pipeline 1	iser faile	ed.						
Environmental Impact:									
Approximately 50 bbl produc	ed water	spilled to	o the pi	peline F	ROW and a	adjace	nt pi	roperty.	Approximate
area of 60' x 80'. Soil excava									**
Time Required to Control E	vent (Hou	ırs):	Est 15	minute					
Volume Discharged or Consumed: OIL: bbls WATER: _50_ bbls GAS:mcf									
Volumes Recovered: OIL: bbls WATER: _25_ bbls									
Net Volume Lost:			OIL: _	bb	ols WAT	ER:_2	25	bbls	
Action Taken to Control Event: No standing liquids. Marking area with GPS. Taking photos. Left									
message with BLM Spill Hotline. Initiate initial affected soil removal on September 23, 2023.									
Resulting Damage: Surface soil.									
Clean-Up Procedures: Dig and haul. Disposal at R360 or LeaLand facilities under manifest.									
Cause/Extent of Personal In	jury: Non	e.							
Actions the operator has tak	en or will	take to	prevent	a recur	rence of th	e inci	dent	:	
Repaired line.									
Agency Notification	Agend	cy Name	<b>)</b>	(	Contact Nai	me		Г	Date/Time
List: BLM – Carl					Morgan	<u> </u>	1		023 11:37am
	NMOCD	***			tline (ema	nil)			023 11:00am

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

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

Attachment 2-2

Form 3160-5 (June 2015)

## UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FORM APPROVED

	Expires: January 31, 2018	
5. Lease Serial	No.	

6. If Indian, Allottee or Tribe Name SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other Instructions on page 2 1. Type of Well 8. Well Name and No. Culebra Bluff CTB3 ✓ Other Soil Remediation Gas Well Oil Well 9. API Well No. 2. Name of Operator Novo Oil & Gas / Earthstone Energy, Inc. Field and Pool or Exploratory Area 3b. Phone No. (include area code) 3a. Address 600 N. Marienfeld, Suite 1000, Midland, Texas (432) 894-0004 11. Country or Parish, State 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) Eddy County, New Mexico Area of Soil Remediation - Unit M Section 4, T22S, R28E, 32.341990, -104.0885981 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Water Shut-Off Production (Start/Resume) Acidize Deepen ✓ Notice of Intent Well Integrity Hydraulic Fracturing Reclamation Alter Casing Other soil remediation, produced Recomplete New Construction Casing Repair water release Subsequent Report Plug and Abandon Temporarily Abandon Change Plans Water Disposal Plug Back Convert to Injection Final Abandonment Notice 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been

completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Soil remediation is necessary to remove chloride affected soil.

The weld connection on the pipeline riser failed.

Estimated 50-bbl of produced water released into ROW and adjacent property.

Soil remediation scheduled to begin on 10/13/2023. Altamira will direct remediation activities.

14. I hereby certify that the foregoing is true and correct. Name (Printed Typed).  Bryan Haney	Senior Project Manager Title				
Signature BM MM	Date 10/12/2023				
THE SPACE FOR FED	ERAL OR STATE OF	CE USE			
Approved by	Title	Date			
Conditions of approval, if any, are attached. Approval of this notice does not warran certify that the applicant holds legal or equitable title to those rights in the subject I which would entitle the applicant to conduct operations thereon.	nt or ease Office	Office			

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Released to Imaging: 3/21/2024 2:28:20 PM

From: Bryan Haney

To: <u>Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Morgan, Crisha A</u>

Cc: Kevin Hart; Chris Martin; Montgomery Floyd

Subject: nAPP2328543797 - Culebra Bluff CTB-3 Produced Water Release - NOTICE OF SOIL REMEDIATION AND

CONFIRMATION SOIL SAMPLING

**Date:** Thursday, October 12, 2023 4:15:00 PM

Attachments: Novo MUE Report 10-10-2023 - Rana Salada PW Release.docx

image001.png

C-141 Initial Notification 10-10-2023.pdf

This release occurred on October 10, 2023. We intend to begin soil excavation and removal on October 13, 2023. Following soil removal, the excavation will be gridded and confirmation soil samples will be collected in accordance with the NMOCD guidance.

If you have any questions regarding this notice, please let us know.

Thank you,

#### Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Corpus Christi, Texas

Bryan.Haney@altamira-us.com

altamira-us.com



From: Bryan Haney

To: <u>Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Morgan, Crisha A</u>

Cc: Kevin Hart; Chris Martin; Montgomery Floyd

Subject: nAPP2328543797 - Culebra Bluff Produced Water Release - Backfilling

**Date:** Friday, October 27, 2023 4:01:00 PM

Attachments: <u>image001.png</u>

We have completed affected soil excavation and removal along with the required grid and sidewall sampling. We plan to begin backfill activities on 10/28/2023. If you have any questions please let us know.

Thank you

#### Bryan Haney, TX P.G

Senior Project Manager | 361.658.3126 |

Corpus Christi, Texas

Bryan.Haney@altamira-us.com

altamira-us.com





**APPENDIX B** Photographic Documentation

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release



October 10, 2023 – view northwest at point of release and release area northwest of release



View of pipe point of release and release area to the northwest



View north at release area



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface imact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area



View showing complete backfilled area



**APPENDIX C** Field Documentation

Received by OCD: 12/16/2023 12:00:20 AM  ALTAMIRA	Client: Earthstone Project: CTB3 Leleuse	Page 81 of 33  Page: of  Date: 10/16/1023  By:
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**APPENDIX D** Waste Management Documentation



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196640	Trailer No. MENDEZ 109				
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-18-2023 09:38 AM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t					
ENER	Weight (lbs): 27120,2136	-	TO 484	80				
Ö	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE							
	<b>Generator's Representative:</b> Bryan Haney							
	Name: LOC International							
ER	Emergency Contact: David Hook	oer						
ORI	Emergency Contact Phone: 325-	650-2320						
SP	Transporter: Acknowledgment o	f Delivery of	f Material					
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	fredo Mar	rale2	·····				
-	(Impreso/Mecanografico):	o Minde	<i>æ,</i>	<b>Date:</b> 10-18-20	023 09:38 AM			
LITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NI	-	(575) 887-4048			
. FACI	Permit No: NM-1-0035-New Mexico	Comments:						
DISPOSAL FA	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	vered To This F	acility.			
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-18-2023	<b>Time</b> 09:38 AM			



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196640	Trailer No. MENDEZ 109				
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-18-2023 09:38 AM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t					
ENER	Weight (lbs): 27120,2136	-	TO 484	80				
Ö	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE							
	<b>Generator's Representative:</b> Bryan Haney							
	Name: LOC International							
ER	Emergency Contact: David Hook	oer						
ORI	Emergency Contact Phone: 325-	650-2320						
SP	Transporter: Acknowledgment o	f Delivery of	f Material					
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LITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NI	-	(575) 887-4048			
. FACI	Permit No: NM-1-0035-New Mexico	ew Mexico Comments:						
DISPOSAL FA	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	vered To This F	acility.			
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-18-2023	<b>Time</b> 09:38 AM			



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196644	<b>Trailer No.</b> M	ENDEZ 108	
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-18-2023 09:50 AM		
	Name Or Description Of Waste S	Shipped: Non-Exemp	t			
	Weight (lbs): 26480,28280	)	Tos	526	)	
O	Lease/Job Name: CTB 3 PRODUCE WATER RELEAS	E				
<b>Generator's Representative:</b> Bryan Haney						
	Name: LOC International					
TER	Emergency Contact: David Hooper					
Ŏ.	Emergency Contact Phone: 325-650-2320					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico); A F C B B B B B B B B B B B B B B B B B B					
ILITY	Lea Land, LLC	i e	er 64, U.S. Hwy ( Of Carlsbad, NN	•	(575) 887-4048	
L FAC	Permit No: NM-1-0035-New Mexico  Comments:					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DIS	Authorized Signature:	Unit No: Date Time 10-18-2023 09:50 AM				



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

NON-	HAZARDOUS WASTE MANIFEST	-	<b>No.</b> 196647	<b>Trailer No.</b> G	REEN /LINES		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Dispos Date: 10-18-20 09:59 A				
		Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt					
ENE	Weight (lbs): 10						
0	Lease/Job Name: CTB 3 PRODUCE WATER RELEASI	E					
:	<b>Generator's Representative:</b> Bryan Haney						
	Name: LOC International						
LER	Emergency Contact: David Hooper						
OR.	Emergency Contact Phone: 325-650-2320						
dSN	Transporter: Acknowledgment of Delivery of Material						
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CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DIS	Authorized Signature:		Unit No: IIA	<b>Date</b> 10-18-2023	<b>Time</b> 09:59 AM		



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

NON HAZADDOUG WASTE MANUFEST			<b>No.</b> 196659 <b>Trailer No.</b> MENDEZ 106				
NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196659	Trailer No. Mi	ENDEZ 106		
	Company Name: Earthstone Energy		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-18-2023			
	<b>Phone:</b> (281) 298-4246		THE WOOdidings		10:32 AM		
GENERATOR	Name Or Description Of Waste S						
	X RCRA Exempt RCRA I	Non-Exempt	i	· · · · · · · · · · · · · · · · · · ·			
	Weight (lbs):		10				
5	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE	<u> </u>					
	<b>Generator's Representative:</b> Bryan Haney						
	Name: LOC International						
TER	Emergency Contact: David Hooper						
OR	Emergency Contact Phone: 325-650-2320						
ASP(	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):/ Willo Non Co						
_	(Impreso/Mecanografico): / Win Cr.  Signature (Firma): X / Win Cr.  Date: 10-18-2023 10:32 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN	' '	(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico  Comments:						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DIS	Authorized Signature:	Unit No: Date Time 10-18-2023 10:32 At			<b>Time</b> 10:32 AM		
		<del></del>					

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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196661	Trailer No. M	ENDEZ 107		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380				
	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t				
	Weight (lbs): 25540,34740	) 10	66280	)			
0	<b>Lease/Job Name:</b> CTB 3 PRODUCE WATER RELEASE	Ξ					
	<b>Generator's Representative:</b> Bryan Haney						
	Name: LOC International						
LER	Emergency Contact: David Hooper						
OR	Emergency Contact Phone: 325-650-2320						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico); OSWOLGO VOLGCZ  Date: 10-18-2023 10:36 AM						
	Signature (Firma): X		1000	<b>Date:</b> 10-18-20	23 10:36 AM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DIS	Authorized Signature:		Unit No: IIA	<b>Date</b> 10-18-2023	<b>Time</b> 10:36 AM		



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196662	Trailer No. M&	103		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246	1400 Woodloch Forest Dr., #300 The Woodlands. TX 77380  Date: 10-18-20			<b>Disposal Date:</b> 10-18-2023 10:44 AM		
	Name Or Description Of Waste Shi	pped: on-Exemp	t		<u> </u>		
	Weight (lbs):	21260 To					
	CTB 3 PRODUCE WATER RELEASE  Generator's Representative:  Bryan Haney						
ORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):   Signature (Firma): X  Date: 10-18-2023 10:44 AM						
СІГІТУ			er 64, U.S. Hwy Of Carlsbad, N		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
ISIQ	Authorized Signature:  Unit No:  IIA  Date 10-18-2023  Time 10:44 AM						



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NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196663	Trailer No. M8	J 89		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246	1400 Woodloch Forest Dr., #300 The Woodlands TX 77380  Date: 10-18-20			Disposal Date: 10-18-2023 10:46 AM		
	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exemp	t				
	Weight (lbs):	10					
Ö	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE						
	<b>Generator's Representative:</b> Bryan Haney						
ORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): My Lew Date: 10-18-2023 10:46 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN	•	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL		Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:		Unit No: IIA		<b>Time</b> 10:46 AM		

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NON-	HAZARDOUS WASTE MANIFEST	<b>No.</b> 196732	Trailer No. KOI	DIAK 01		
	Company Name: Earthstone Energy  Phone: (281) 298-4246	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-19-2023 09:51 AM				
GENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exem	pt				
ENER	Weight (lbs):					
ט	Lease/Job Name: CULEBRA BLUFF					
	<b>Generator's Representative:</b> Bryan Haney					
~	Name: Kodiak Oilfield Services					
ORTE	Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico)  RIdchel LIMA  Signature (Firma): **  Date: 10-19-2023 09:51 AM					
CILITY	II BA I ANN I I ( )	ker 64, U.S. Hwy st Of Carlsbad, Ni	· ·	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISF	Authorized Signature:	Unit No:	1 1	Fime 09:51 AM		



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196737	Trailer No. KO	DIAK 91	
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-19-2023 10:10 AM			
GENERATOR	Name Or Description Of Waste Sh  X RCRA Exempt RCRA	nipped: lon-Exempt				
ENE	Weight (lbs):					
Ö	Lease/Job Name: CULEBRA BLUFF					
	Generator's Representative: Bryan Haney					
	Name: Kodiak Oilfield Services					
ER	Emergency Contact: Sonia					
20	Emergency Contact Phone: (575) 706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico)  Signature (Firma): X  Date: 10-19-2023 10:10 AM					
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, N	· · · · · · · · · · · · · · · · · · ·	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-D	Described W	Vastes Were Deli	vered To This Fa	cility.	
DIS	Authorized Signature:  Unit No:  IIA  Date 10-19-2023  Time 10:10 AM					



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196738	<b>Trailer No.</b> KC	DIAK 08		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-19-2023 10:15 AM					
	Name Or Description Of Waste Sh	nipped: lon-Exempt	<u> </u>				
ENE	Weight (lbs): 31940 To						
Ö	Lease/Job Name: CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
LER	Emergency Contact: Sonia						
ראס	Emergency Contact Phone: (575) 706-1350						
SP	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): 1 Bernardo						
<b>L</b>	Signature (Firma): X			<b>Date:</b> 10-19-20	23 10:15 AM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN	•	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-D	Disposal Facility's Certification:  I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:  Unit No:  IIA  Date 10-19-2023  Time 10:15 AM						

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NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196849	Trailer No. 🗸	113		
	Company Name: Earthstone Energy  Phone: (281) 298-4246	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-20-2023 01:06 PM			O <b>Date:</b> 10-20-2023		
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t				
ENE	Weight (lbs):		_	10			
G	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE	E					
	<b>Generator's Representative:</b> Bryan Haney						
	Name: LOC International						
TER	Emergency Contact: David Hooper						
OR.	Emergency Contact Phone: 325-650-2320						
4SP	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografica) ARCUA-INZNZM						
-	Signature (Firma): X	~	Date: 10-20-2023 01:				
CILITY	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN	-	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DIS	Authorized Signature:  Unit No:  Date 10-20-2023  Time 01:06 PM						



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196850	Trailer No. M8	&J WHITE		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300  The Woodlands, TX 77380				
	Name Or Description Of Waste S	hipped: Non-Exempt	t				
	Weight (lbs): 10						
0	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE						
	<b>Generator's Representative:</b> Chris Martin						
	Name: LOC International						
rer	Emergency Contact: David Hooper						
ORI	Emergency Contact Phone: 325-650-2320						
SP(	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):						
	Signature (Firma): X Date: 10-20-2023 01:19 PM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico  Comments:						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-I	Described V	Vastes Were Deli	vered To This F	acility.		
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 01:19 PM		



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196851	Trailer No. M8	kJ 9		
GENERATOR	Company Name: Earthstone Energy  Phone: (281) 298-4246		<b>Address:</b> 1400 Woodloch The Woodlands	Disposal Date: 10-20-2023 01:21 PM			
	Name Or Description Of Waste S	hipped: Non-Exempt	<u>.                                    </u>				
	Weight (lbs): U3920	Weight (lbs): 19					
ט	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE	-					
	<b>Generator's Representative:</b> Chris Martin						
	Name: LOC International						
LER	Emergency Contact: David Hooper						
OR	Emergency Contact Phone: 325-650-2320						
ISP	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico) ADOLFO BARRON						
•	Signature (Firma): X	Hann	<u> </u>	<b>Date:</b> 10-20-20	023 01:21 PM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:	3	Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 01:21 PM		



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196854	Trailer No. VJ 16			
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #30 The Woodlands, TX 77380		Disposal Date: 10-20-2023 01:39 PM	
	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt					
	Weight (lbs): 35360					
	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
	<b>Generator's Representative:</b> Chris Martin					
TRANSPORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320					
	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico))  Signature (Firma): X  Date: 10-20-2023 01:39 PM					
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM			(575) 887-4048	
	Permit No: NM-1-0035-New Mexico	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
	Authorized Signature:	<b>-</b>	Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 01:39 PM	

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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196860	Trailer No. ∨J	<del>**</del> 13		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #30 The Woodlands, TX 77380		Disposal Date: 10-20-2023 03:52 PM	
	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt					
	Weight (lbs):					
	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
	Generator's Representative: Chris Martin					
	Name: LOC International					
rer	Emergency Contact: David Hooper					
TRANSPORTER	Emergency Contact Phone: 325-650-2320					
	Transporter: Acknowledgment of Delivery of Material					
	Printed/Typed Name (Impreso/Mecanografico)/ MARCO A IN ZONZO					
L	Signature (Firma): X Date: 10-20-2023 03:52 PM					
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM			(575) 887-4048	
	Permit No: NM-1-0035-New Mexico	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
	Authorized Signature:		Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 03:52 PM	



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NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196797	Trailer No. KODIAK 08			
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380		Disposal Date: 10-20-2023 09:16 AM	
	Name Or Description Of Waste Shipped:  X RCRA Exempt					
	Waish //hs). 42580,49980,47080 Tc139440					
	<b>Lease/Job Name:</b> CULEBRA BLUFF					
	<b>Generator's Representative:</b> Bryan Haney					
TRANSPORTER	Name: Kodiak Oilfield Services					
	Emergency Contact: Sonia					
	Emergency Contact Phone: (575) 706-1350					
	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): Date: 10-20-2023 09:16 AM					
DISPOSAL FACILITY	ligaland lit	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM			(575) 887-4048	
	Permit No: NM-1-0035-New Mexico  Comments:					
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
	Authorized Signature:		Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 09:16 AM	



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NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196798	Trailer No. KO	DIAK 91			
	Company Name: Earthstone Energy		Address:  1400 Woodloch Forest Dr., #300  The Woodlands, TX 77380  Dispose Date: 10-20-2				
GENERATOR	Phone: (281) 298-4246				09:19 AM		
	Name Or Description Of Waste S  RCRA Exempt RCRA	hipped: Non-Exemp	t				
ENEF	weight (lbs): 4580,36660	4628	30 T	5/245E	90		
S S	Lease/Job Name: CULEBRA BLUFF						
Generator's Representative: Bryan Haney							
	Name: Kodiak Oilfield Services						
ER	Emergency Contact: Sonia						
TRANSPORTER	Emergency Contact Phone: (575) 706-1350						
ISP	Transporter: Acknowledgment of	f Delivery of	f Material				
RAN	Printed/Typed Name (Impreso/Mecanografico);	BA1	Epc/				
F	Signature (Firma): X Date: 10-20-2023 09:19 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:	Unit No: Date Time 09:19 AM					

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NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196799	Trailer No. KODIAK 60			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-20-202 09:22 AM				
GENERATOR	Name Or Description Of Waste Sh	nipped: Ion-Exempt	t		I control of the cont		
ENEF	Weight (lbs): 48720,47840,	5028	70 Te	14678	0		
S	<b>Lease/Job Name:</b> CULEBRA BLUFF						
Generator's Representative: Bryan Haney							
	Name: Kodiak Oilfield Services						
LER	Emergency Contact: Sonia						
ראס	Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico)  Signature (Firma): X  Date: 10-20-2023 09:22 AM						
CILITY	II BA I ANN I I I		er 64, U.S. Hwy Of Carlsbad, NI	·	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-D	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:	Unit No: Date Time 10-20-2023 09:22 AM					

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NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196808	<b>Trailer No.</b> KC	ODIAK 95		
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #30 The Woodlands, TX 77380		Disposal Date: 10-20-2023 09:45 AM		
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t		-		
ENER	Weight (lbs): 4630	0,42	120 T	6 13718	<u>30</u>		
6	<b>Lease/Job Name:</b> CULEBRA BLUFF						
- · · · · · · · · · · · · · · · · · · ·	Name: Kodiak Oilfield Services	Name: Kodiak Oilfield Services					
ER	Emergency Contact: Sonia						
OR	Emergency Contact Phone: (575) 706-1350						
ISP	Transporter: Acknowledgment o	of Delivery o	f Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): YAZEXAVOER						
	Signature (Firma): X	flo		<b>Date:</b> 10-20-2	023 09:45 AM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	•	(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico  Comments:						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DIS	Authorized Signature:	>	Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 09:45 AM		



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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 196809	Trailer No. KC	DIAK 01		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-20-202 09:46 AM				
ATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exemp	t		•		
GENERATO	weight (lbs): 47540,	4898	X TC	139140			
0	<b>Lease/Job Name:</b> CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services			· · · · · · · · · · · · · · · · · · ·			
LER	Emergency Contact: Sonia						
ראס	Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico)  Bignature (Firma): Y  Date: 10-20-2023 09:46 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	•	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
ISIQ	Authorized Signature:	>	Unit No:	<b>Date</b> 10-20-2023	<b>Time</b> 09:46 AM		



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NON-	HAZARDOUS WASTE MANIFEST	-	<b>No.</b> 196810	Trailer No. KODIAK 02			
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	<b>Disposal Date:</b> 10-20-2023 09:48 AM			
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t				
ENEF	Weight (lbs): 46820, 38380	,4131	e0 To	اعلاعاداة			
ט	<b>Lease/Job Name:</b> CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
ER	Emergency Contact: Sonia						
ORI	Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):/						
CILITY	Lea Land, LLC	1	er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature	Unit No: Date Time 10-20-2023 09:48 AM					



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196891	Trailer No. K	DDIAK 91			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-23-2023 09:20 AM			
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	ı		•		
ENEF	Weight (lbs): 50840 49160	34740	41640	TW 174	380		
Ü	Lease/Job Name: CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
PRTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)	706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Aproxive  Signature (Firma): X  Date: 10-23-2023 09:20 AM						
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048		
. FACI	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DIS	Authorized Signature:  M. San Chaz		Unit No:	<b>Date</b> 10-23-2023	<b>Time</b> 09:20 AM		

LEA LAND, LLC



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196892	Trailer No. KODIAK 08			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-23-2023 09:23 AM				
GENERATOR	Name Or Description Of Waste SI  X RCRA Exempt RCRA	hipped: Non-Exemp	t				
E K	Weight (lbs): 45460 46140	41764	10 4692	j 10 184	160		
ָ ס	Lease/Job Name: CULEBRA BLUFF						
: :	<b>Generator's Representative:</b> Bryan Haney						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-23-2023 09:23 AM						
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	· ·	(575) 887-4048		
FACII	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISF	Authorized Signature:  Unit No: Date 10-23-2023 D9:23 AM						



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

NON-HAZARDOUS WASTE MANIFEST		No. 196895 Trailer No. KODIAK 95		DIAK 95			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-23-2023 09:31 AM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exemp	t				
ENER	Weight (lbs): 49960 50160	39780	47160	TQ 18701	.ot		
U	<b>Lease/Job Name:</b> CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
ER	Emergency Contact: Sonia						
08	Emergency Contact Phone: (575)	706-1350					
ISP	Transporter: Acknowledgment o	f Delivery of	f Material	••			
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	lexan	der				
F	Signature (Firma): X			<b>Date:</b> 10-23-20	023 09:31 AM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:  M Sancho		Unit No:	<b>Date</b> 10-23-2023	<b>Time</b> 09:31 AM		



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 196896 <b>Trailer No.</b> KODIAK 01		DDIAK 01				
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-23-202 09:33 AM					
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	:					
ENER	Weight (lbs): 45140 42160	43640	44160	<b>ช</b> 1751	00			
Ö	Lease/Job Name: CULEBRA BLUFF		•					
	Generator's Representative: Bryan Haney	·						
TRANSPORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350							
TRANS	Printed/Typed Name (Impreso/Mecanografico): RIJChel LIMA  Signature (Firma): X Date: 10-23-2023 09:33 AM							
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-23-2023	<b>Time</b> 09:33 AM			

LEA LAND, LLC



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 196898	Trailer No. KC	DIAK 97		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-23-2023 09:40 AM				
ATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt						
ENEF	Name Or Description Of Waste Shipped:    X RCRA Exempt						
Ū							
	<b>Generator's Representative:</b> Bryan Haney						
PRTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)	706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-23-2023 09:40 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	•	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Del	ivered To This I	Facility.		
DISI	Authorized Signature:  M Sanche		Unit No:	<b>Date</b> 10-23-2023	<b>Time</b> 09:40 AM		



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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 196902	Trailer No. KG	DDIAK 60		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-23-2023 09:53 AM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exemp	t.				
ENE	Weight (lbs): 41840 42160	4311	60 Ta 1	127160			
Ö	<b>Lease/Job Name:</b> CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-23-2023 09:53 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni	-	(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico  Comments:						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:  M. Sancha		Unit No:	<b>Date</b> 10-23-2023	<b>Time</b> 09:53 AM		

LEA LAND, LLC



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

NON-	HAZARDOUS WASTE MANIFEST	<b>No.</b> 197035	Trailer No. JOZ	ZAM 0360			
	Company Name: Earthstone Energy  Phone: (281) 298-4246	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 09:51 AM					
Name Or Description Of Waste Shipped:    X   RCRA Exempt     RCRA Non-Exempt							
ENE	Weight (lbs): 30 140 -	TYO 680	980				
6	Lease/Job Name: CTB3 PRODUCE WATER RELEASE						
	<b>Generator's Representative:</b> Bryan Haney			•			
	Name: LOC International	Name: LOC International					
ER	Emergency Contact: David Hooper						
OR.	Emergency Contact Phone: 325-650-2320						
SP	Transporter: Acknowledgment of Delivery o	f Material					
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): 05e	Zhmay	<u> </u>				
	Signature (Firma): X		<b>Date:</b> 10-26-202	23 09:51 AM			
CILITY	II 63 I 3MM I I I	er 64, U.S. Hwy t Of Carlsbad, Ni		(575) 887-4048			
FA							
POSAI	Disposal Facility's Certification; I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No:  Date  Time						
ISIQ	Authorized Signature:	Unit No:		<b>Time</b> 09:51 AM			



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197036	7036 <b>Trailer No.</b> JOZAM 3		
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 09:56 AM			
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	t			
ENER	Weight (lbs): 35080, 3(0)	50 -	to 7118	<del>)</del>		
ט	Lease/Job Name: CTB3 PRODUCE WATER RELEASE					
	<b>Generator's Representative:</b> Bryan Haney					
ORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): MaTer Camora  Signature (Firma): X MaTer Zamora  Date: 10-26-2023 09:56 AM					
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, N	· ·	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico					
ISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISF	Authorized Signature:	Unit No: Date 10-26-2023 Time 09:56 AM				

LEA LAND, LLC



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 197037	Trailer No. JOZ	AM 6321			
	Company Name: Earthstone Energy Phone: (281) 298-4246	i	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 09:57 AM				
GENERATOR	Name Or Description Of Waste Ship  X RCRA Exempt RCRA Non						
ENEG	Weight (lbs):	40 to 80	1400				
<sup>1</sup> 5							
Generator's Representative: Bryan Haney							
	Name: LOC International	Name: LOC International					
ER	Emergency Contact: David Hooper						
0 [N	Emergency Contact Phone: 325-650-2320						
SP	Transporter: Acknowledgment of De	elivery of Material					
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): Albut Lune						
<b>-</b>	Signature (Firma): X		<b>Date:</b> 10-26-202	3 09:57 AM			
LITY	llealann IIC I	le Marker 64, U.S. Hwy les East Of Carlsbad, N	·	(575) 887-4048			
. FACI	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:	Unit No:	1	i <b>me</b> 9:57 AM			



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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 197038	Trailer No. JOZAM 4851		
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-26-2023 10:03 AM		
GENERATOR						
ENER	Weight (lbs): 39-14	10 TE	L 63U	(80		
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE  Generator's Representative: Bryan Haney						
H	Emergency Contact: David Hooper					
08	Emergency Contact Phone: 325-650-2320					
ISP	Transporter: Acknowledgment o	f Delivery of	Material			
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): Nestor Bucio					
_	(Impreso/Mecanografico): Nestor Buc.'O  Signature (Firma): X  Buc.'O  Date: 10-26-2023 10:03 AM					
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	=	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification:  I Hereby Certify That The Above Described Wastes Were Delivered To This Facility.					
DISE	Authorized Signature:	fal	Unit No: IIA	<b>Date</b> 10-26-2023	<b>Time</b> 10:03 AM	



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

Company Name: Earthstone Energy Phone: (281) 298-4246  Name Or Description Of Waste Shipped:    X   RCRA Exempt   RCRA Non-Exempt	NON-HAZARDOUS WASTE MANIFEST			No. 197043 Trailer No. RICO & SON (			
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE  Generator's Representative: Bryan Haney  Name: LOC International Emergency Contact: David Hooper Emergency Contact Phone: 325-650-2320  Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature: Unit No: Date Time		Earthstone Energy	1400 Woodloch Forest Dr., #300 <b>Date:</b> 10-26-2023				
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE  Generator's Representative: Bryan Haney  Name: LOC International Emergency Contact: David Hooper Emergency Contact Phone: 325-650-2320  Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.	ATOR	<u> </u>					
Lease/Job Name: CTB 3 PRODUCE WATER RELEASE  Generator's Representative: Bryan Haney  Name: LOC International Emergency Contact: David Hooper Emergency Contact Phone: 325-650-2320  Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Mile No: Date: 10-26-2023 10:23 AM  Lea Land, LLC  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.	ENER	Weight (lbs); 44340,42	3760	1008	8 100		
Bryan Haney  Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320  Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-26-2023 10:23 AM  Lea Land, LLC  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time	Ö						
Emergency Contact: David Hooper Emergency Contact Phone: 325-650-2320  Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature: Unit No: Date Time	· ·						
Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time		Name: LOC International					
Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time	ER	Emergency Contact: David Hooper					
Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time	N	Emergency Contact Phone: 325-650-2320					
Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time	SP	Transporter: Acknowledgment of	Delivery of	f Material			
Signature (Firma): X  Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM  Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time	RAN	1 = · · · · · · · · · · · · · · · · · ·					
Permit No: NM-1-0035-New Mexico  Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date  Time		Signature (Firma): X					
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature: Unit No: Date Time	LITY	ilbalann il		•	•	(575) 887-4048	
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No:  Date 10-26-2023 10:23 AM	Ī						
Authorized Signature:  Unit No: Date 10-26-2023 Time 10:23 AM	POSAI						
	DISI	Authorized Signature:	le,				



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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 197044	Trailer No. RICO & SON 07			
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 10:25 AM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exemp	ot		•		
ENE	Weight (lbs): 4020, 416L	10	10818	3/2D			
U	Lease/Job Name: CTB 3 PRODUCE WATER RELEASI	E					
:							
	Name: LOC International	Name: LOC International					
ER	Emergency Contact: David Hooper						
E	Emergency Contact Phone: 325-650-2320						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X LOUSO BARRAL Date: 10-26-2023 10:25 AM						
CILITY	Lea Land, LLC	ľ	ter 64, U.S. Hwy ( t Of Carlsbad, N	·	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification:  I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:	2	Unit No:		<b>Time</b> 10:25 AM		



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 197045	Trailer No. RICO & SON 01			
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 10:26 AM			
GENERATOR	Name Or Description Of Waste SI  X RCRA Exempt RCRA	hipped: Non-Exemp	ıt .			
ENER	Weight (lbs): 4270	eO -	t 686 2	XXX		
ט	Lease/Job Name: CTB 3 PRODUCE WATER RELEASE					
	<b>Generator's Representative:</b> Bryan Haney					
	Name: LOC International					
ER	Emergency Contact: David Hooper					
08	Emergency Contact Phone: 325-650-2320					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):					
<b>–</b>	Signature (Firma): X Date: 10-26-2023 10:26 AM					
CILITY	Lea Land, LLC		er 64, U.S. Hwy t Of Carlsbad, Ni	· ·	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:		Unit No:		<b>Time</b> 10:26 AM	



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

NON-	HAZARDOUS WASTE MANIFEST	,	<b>No.</b> 197020	Trailer No. KODIAK 91			
	Company Name: Earthstone Energy Phone: (281) 298-4246	-	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-203 09:02 AM				
GENERATOR	Name Or Description Of Waste Shipp  X RCRA Exempt RCRA Non-		t				
ENE	Weight (lbs): 49130,42	160	), 4316	),US7	9		
Lease/Job Name: CULEBRA BLUFF							
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
ER	Emergency Contact: Sonia						
0 R	Emergency Contact Phone: (575) 706-	1350					
ISP	Transporter: Acknowledgment of Del	ivery o	f Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):/	RN	AFAel				
I	Signature (Firma): X  Date: 10-26-2023 09:02 AM						
LITY	llealann IIC !		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
. FACI	Permit No: Com NM-1-0035-New Mexico						
DISPOSAL	Facility.						
DISI	Authorized Signature:		Unit No:	<b>Date</b> 10-26-2023	<b>Time</b> 09:02 AM		



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

NON-	HAZARDOUS WASTE MANIFEST	<b>No.</b> 197022	Trailer No. KO	DIAK 95		
	Company Name: Earthstone Energy Phone: (281) 298-4246	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-2023 09:10 AM				
CENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exer	mpt		•		
ENE	Weight (lbs): U5160,	12140,	4316	)		
ט	Lease/Job Name: CULEBRA BLUFF		1017	1480		
Generator's Representative: Bryan Haney						
	Name: Kodiak Oilfield Services					
TRANSPORTER	Emergency Contact: Sonia					
08	Emergency Contact Phone: (575) 706-1350					
SP	Transporter: Acknowledgment of Delivery of Material					
A A	Printed/Typed Name (Impreso/Mecanografico)://AlexavideR					
F	Signature (Firma): X					
CILITY	TIPATANNITE T	arker 64, U.S. Hwy ast Of Carlsbad, NI		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification:  I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:	Unit No:	i I	<b>Time</b> 09:10 AM		



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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 197023	<b>10.</b> 197023 <b>Trailer No.</b> KODIAK 02			
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Display="3">10- 09				
GENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt						
ENE	Weight (lbs):	0,4	3160,0	42160	-		
٥	Lease/Job Name: CULEBRA BLUFF						
	Generator's Representative: Bryan Haney						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 7	Emergency Contact: Sonia					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-26-2023 09:12 AM						
CILITY	ilealann il	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM					
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:	e	Unit No: IIA		<b>Time</b> 09:12 AM		

LEA LAND, LLC



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

NON-	HAZARDOUS WASTE MANIFEST	<b>No.</b> 197031	Trailer No. KODIAK 08			
	Company Name: Earthstone Energy Phone: (281) 298-4246	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-202 09:38 AM				
GENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exemp	t				
ENE	Weight (lbs): 40, 42, 100, 6	1476	10 13	0700		
U	Lease/Job Name: CULEBRA BLUFF		2			
	Name: Kodiak Oilfield Services					
ER	Emergency Contact: Sonia					
  - 	Emergency Contact Phone: (575) 706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografics): Byr www.					
<u>.</u>	Signature (Firma): X		Date: 10-26-202	23 09:38 AM		
LITY	llealann il	er 64, U.S. Hwy : Of Carlsbad, Ni		(575) 887-4048		
. FACII	Permit No: NM-1-0035-New Mexico  Comments:					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DIS	Authorized Signature:	Unit No:	B	<b>Time</b> 09:38 AM		



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

NON-	HAZARDOUS WASTE MANIFEST	<b>No.</b> 197032	Trailer No. KODIAK 60			
	Company Name: Earthstone Energy  Phone: (281) 298-4246	Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-26-202 09:41 AM				
GENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt	ot				
ENE	Weight (lbs):	143 140	) to 1	32780		
Ö	Lease/Job Name: CULEBRA BLUFF					
<b>Generator's Representative:</b> Bryan Haney						
·	Name: Kodiak Oilfield Services					
Z Z	Emergency Contact: Sonia					
N	Emergency Contact Phone: (575) 706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-26-2023 09:41 AM					
LITY	II BA I ANG I I I	ker 64, U.S. Hwy t Of Carlsbad, Ni	· · · · · · · · · · · · · · · · · · ·	(575) 887-4048		
. FACII	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification:  I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:	Unit No: Date 10-26-2023 Time 09:41 AM				



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

NON-HAZARDOUS WASTE MANIFEST		No. 197110 Trailer No. KODIAK		DIAK 08		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-202 09:32 AM			
RATOR	Name Or Description Of Waste Sh	nipped: lon-Exempt			•	
GENERATO	Weight (lbs): 39940 ,35980,	38920	) Ta 1	14840		
ָ ס	Lease/Job Name: CULEBRA BLUFF					
	***************************************					
RTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)	706-1350				
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Bernur do					
	Signature (Firma): X	The state of the s		<b>Date:</b> 10-27-20	023 09:32 AM	
CILITY	ligaland lit		er 64, U.S. Hwy Of Carlsbad, NI	· ·	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 09:32 AM	



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 197111	Trailer No. K	DDIAK 91			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 09:34 AM				
ATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	t		1.000		
GENERATO	Weight (lbs): 39820, 3	38760	TQ 1185	520			
Ö	Lease/Job Name: CULEBRA BLUFF	-					
	Generator's Representative: Bryan Haney						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)	706-1350					
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-27-2023 09:34 AM						
LITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, N	=	(575) 887-4048		
. FACI	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:  Unit No: Date 10-27-2023 09:34 AM						



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NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 197112	<b>No.</b> 197112 <b>Trailer No.</b> KODIAK 95			
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-27-2023 09:36 AM			
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exempt	<b>t</b>	,	l		
E E	Weight (lbs): 37680, 41620	TO	79300				
Ü	Lease/Job Name: CULEBRA BLUFF						
	Generator's Representative: Bryan Haney						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350						
TRANSPORT	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): VAZEXAVVER  Signature (Firma): X Date: 10-27-2023 09:36 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, N		(575) 887-4048		
ΕĀ	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:  Unit No:  IIA  Date 10-27-2023  Time 09:36 AM						



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 197130 <b>Trailer No.</b> KODIAK		DDIAK 60				
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 11:07 AM					
ATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exempt						
GENERATO	Weight (lbs): 44780 , 3922()	76)	84000					
Ö	<b>Lease/Job Name:</b> CULEBRA BLUFF				33333333 <u></u>			
	<b>Generator's Representative:</b> Bryan Haney	·						
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350							
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-27-2023 11:07 AM							
	Signature (Firma): X				723 11.07 AIVI			
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DISF	Authorized Signature:  Unit No: Date 10-27-2023 Time 11:07 AM							

LEA LAND, LLC



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197138 <b>Trailer No.</b> KO		DIAK 02		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Forest Dr., #300 5, TX 77380	<b>Disposal Date:</b> 10-27-2023 11:46 AM		
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exempt					
ENER	Weight (lbs):				Tø		
Ö	<b>Lease/Job Name:</b> CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
RTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-27-2023 11:46 AM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Del	ivered To This Fa	acility.		
DISF	Authorized Signature:  MSancha	<b>Time</b> 11:46 AM					



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197140	Trailer No. KODIAK 01		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 11:54 AM			
GENERATOR	Name Or Description Of Waste SI	hipped: Non-Exempt	-			
ENER	Weight (lbs): 41720 43940	700	85660			
5	Lease/Job Name: CULEBRA BLUFF			-		
	<b>Generator's Representative:</b> Bryan Haney					
	Name: Kodiak Oilfield Services					
ER	Emergency Contact: Sonia					
08	Emergency Contact Phone: (575) 706-1350					
ISP	Transporter: Acknowledgment of Delivery of Material					
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): RPdhel L7MA					
F	Signature (Firma): X	Ba	<u> </u>	<b>Date:</b> 10-27-20	23 11:54 AM	
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI		(575) 887-4048	
FACII	Permit No: Comments: NM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.					
DISI	Authorized Signature:  M. Sanchez		Unit No: IIA	<b>Date</b> 10-27-2023	<b>Time</b> 11:54 AM	



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197144	Trailer No. STO	22		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-27-2023 12:13 PM			
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	:				
ENE	Weight (lbs):				10		
ס	<b>Lease/Job Name:</b> CULEBRA BLUFF			<del></del>	<del></del>		
	<b>Generator's Representative:</b> Bryan Haney	. 12					
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Folywood Sulaw  Signature (Firma): X Folywood Sulaw  Date: 10-27-2023 12:13 PM						
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni	E .	(575) 887-4048		
. FACI	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISI	Authorized Signature:  M. San Uho		Unit No:	1 1	<b>Time</b> 12:13 PM		

LEA LAND, LLC



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197146	<b>Trailer No.</b> LG	BROS. 337		
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 12:42 PM				
	Name Or Description Of Waste SI  X RCRA Exempt RCRA	hipped: Non-Exempt	:				
	Weight (lbs):						
Ū	Lease/Job Name: CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
LER.	Emergency Contact: Sonia						
ORI	Emergency Contact Phone: (575) 706-1350						
dSI	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico): Agusetto Calale						
	Signature (Firma): X Date: 10-27-2023 12:42 PM						
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-I	Described W	Vastes Were Deli	ivered To This F	acility.		
BISF	Authorized Signature:  Unit No:  IIA  Date 10-27-2023  12:42 PM						

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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197147	Trailer No. RE	YES 06		
	Company Name: Earthstone Energy Phone: (281) 298-4246	Address: 1400 Woodloch The Woodlands	Disposal Date: 10-27-2023 12:45 PM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exempt					
ENER	Weight (lbs):						
ַ ס	Lease/Job Name: CULEBRA BLUFF			-			
	<b>Generator's Representative:</b> Bryan Haney			·			
	Name: Kodiak Oilfield Services						
E R	Emergency Contact: Sonia						
N	Emergency Contact Phone: (575) 706-1350						
SP	Transporter: Acknowledgment of Delivery of Material						
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):						
-	Signature (Firma): X Date: 10-27-2023 12:45 PM						
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048		
FACII	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DISF	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 12:45 PM		

LEA LAND, LLC



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

NON-HAZARDOUS WASTE MANIFEST		<b>No.</b> 197148 <b>Trailer No.</b> REYES 08		⁄ES 08				
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 12:47 PM					
ATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	:					
GENERATO	Weight (lbs):	_						
5	Lease/Job Name: CULEBRA BLUFF		<del></del>					
	<b>Generator's Representative:</b> Bryan Haney	·						
	Name: Kodiak Oilfield Services							
FER	Emergency Contact: Sonia							
ORI	Emergency Contact Phone: (575) 706-1350							
SP(	Transporter: Acknowledgment of Delivery of Material							
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-27-2023 12:47 PM							
T	Signature (Firma): X	Aldo	<u>u</u>	<b>Date:</b> 10-27-20	23 12:47 PM			
LITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	· ·	(575) 887-4048			
. FACI	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DISI	Authorized Signature:  M Sanchy	Unit No: Date 10-27-2023 Time 12:47 PM						



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

NON-I	HAZARDOUS WASTE MANIFEST	:	<b>No.</b> 197149	Trailer No. MAI	RY'S 4			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 12:49 PM					
GENERATOR	Name Or Description Of Waste Sh	nipped: Ion-Exempt		-				
E E E	Weight (lbs): 20560							
Ö	Lease/Job Name: CULEBRA BLUFF	_						
	<b>Generator's Representative:</b> Bryan Haney							
	Name: Kodiak Oilfield Services							
rer	Emergency Contact: Sonia							
OR.	Emergency Contact Phone: (575) 706-1350							
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):   Signature (Firma): X  Date: 10-27-2023 12:49 PM							
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, NI	•	(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-I	Described V	Vastes Were Del	ivered To This Fa	acility.			
DISF	Authorized Signature:  Unit No:  Date 10-27-2023  Time 10-27-2023  12:49 PM							

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

NON-HAZARDOUS WASTE MANIFEST			<b>No.</b> 197150	Trailer No. JP 04				
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-202 12:59 PM					
GENERATOR	Name Or Description Of Waste Shi	ipped: on-Exempt	:					
ENER	Weight (lbs): 19840							
כ	Lease/Job Name: CULEBRA BLUFF							
	<b>Generator's Representative:</b> Bryan Haney	•						
TRANSPORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350  Transporter: Acknowledgment of Delivery of Material							
TRAN	Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X  Date: 10-27-2023 12:59 PM							
CILITY	llealand lit		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-D	escribed V	Vastes Were Deli	ivered To This F	acility.			
BIS	Authorized Signature:  M Sancha		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 12:59 PM			

LEA LAND, LLC



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197151	Trailer No. J&R TRANSP. 5			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 01:02 PM				
GENERATOR	Name Or Description Of Waste SI  X RCRA Exempt RCRA	hipped: Non-Exempt	:				
ENEF	Weight (lbs):	•••					
Ö	Lease/Job Name: CULEBRA BLUFF				i		
	Generator's Representative: Bryan Haney						
	Name: Kodiak Oilfield Services						
rer	Emergency Contact: Sonia						
OR.	Emergency Contact Phone: (575) 706-1350						
TRANSPORT	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Long ( Car 0						
	Signature (Firma): X						
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, N	•	(575) 887-4048		
FA	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.						
DIS	Authorized Signature:  Unit No:  IIA  Date 10-27-2023  Time 01:02 PM						



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197152	Trailer No. J&	R TRANSP. 01
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disport Date: 10-27-201:05 F		
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt	:		
ENER	Weight (lbs):				
Ö					
	<b>Generator's Representative:</b> Bryan Haney				
TRANSPORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)  Transporter: Acknowledgment of Printed/Typed Name		<sup>*</sup> Material		
TR,	(Impreso/Mecanografico):	ide!	1400 Woodloch Forest Dr., #30 The Woodlands, TX 77380  ed: Exempt  1350  ivery of Material  Date: 10-27-20  e Marker 64, U.S. Hwy 62/180, 30 es East Of Carlsbad, NM	023 01:05 PM	
CILITY	Lea Land, LLC		•		(575) 887-4048
FA	Permit No: NM-1-0035-New Mexico	Comments	•		
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	vered To This F	acility.
DISI	Authorized Signature:				<b>Time</b> 01:05 PM



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197153	Trailer No. JP	5			
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 01:07 PM					
GENERATOR	Name Or Description Of Waste Shipped:  X RCRA Exempt RCRA Non-Exempt							
	Weight (lbs): 19540							
<u>ั</u>	Lease/Job Name: CULEBRA BLUFF				-			
	<b>Generator's Representative:</b> Bryan Haney							
ORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575) 706-1350							
CILITY TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):							
LITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, NN		(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.  Authorized Signature:  Unit No: Date Time								
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:07 PM			



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

NON-H	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197154	Trailer No. JP	03		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 01:10 PM				
ATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA I	hipped: Non-Exempt					
GENERATO	Weight (lbs):				_		
Ö	Lease/Job Name: CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
TER	Emergency Contact: Sonia						
OR.	mergency Contact Phone: (575) 706-1350						
ISP	Transporter: Acknowledgment o	f Delivery of	<sup>*</sup> Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	se Per	<i>y</i>				
	Signature (Firma): X	-		<b>Date:</b> 10-27-20	)23 01:10 PM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy ( Of Carlsbad, N		(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico	Comments	<b>:</b>				
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	vered To This F	acility.		
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:10 PM		
<del> </del>				<u> </u>			

LEA LAND, LLC



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197155	Trailer No. GL	EZZ 23				
	Company Name: Earthstone Energy  Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	<b>Disposal Date:</b> 10-27-2023 01:19 PM					
ATOR	Name Or Description Of Waste Shipped:    X   RCRA   Exempt   RCRA   Non-Exempt		·,···						
ENER									
ั้									
	· -								
Bryan Haney  Name: Kodiak Oilfield Services  Emergency Contact: Sonia									
TRA	Printed/Typed Name (Impreso/Mecanografico):	ladro b	ercia.	<b>Date:</b> 10-27-20	23 01:19 PM				
ACILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048				
1	Permit No: NM-1-0035-New Mexico	Comments	<b>:</b>						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	vered To This F	acility.				
DISI	Authorized Signature:  M Sanche		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:19 PM				

LEA LAND, LLC



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

NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197156	Trailer No. BE	ETO'S 01		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch The Woodlands	Disposal Date: 10-27-2023 01:26 PM			
GENERATOR	Name Or Description Of Waste Sh	nipped: lon-Exempt	t .				
ENER	Weight (lbs): 33840						
5	Lease/Job Name: CULEBRA BLUFF	-					
	<b>Generator's Representative:</b> Bryan Haney						
	Name: Kodiak Oilfield Services						
rer	Emergency Contact: Sonia						
ORI	Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-27-2023 01:26 PM						
LITY	II BA I ANG I I I		er 64, U.S. Hwy ( Of Carlsbad, Ni	-	(575) 887-4048		
. FACII	Permit No: Comments: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-D	escribed V	Vastes Were Deli	ivered To This F	acility.		
DISI	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:26 PM		

LEA LAND, LLC



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

NON-	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197157	Trailer No. P&	C 22
	Company Name: Earthstone Energy Phone: (281) 298-4246	-	Address: 1400 Woodloch The Woodlands	Forest Dr., #300 5, TX 77380	Disposal Date: 10-27-2023 01:29 PM
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	Shipped: Non-Exempt			
ENER	Weight (lbs):				
5					
	<b>Generator's Representative:</b> Bryan Haney				
TRANSPORTER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia  Emergency Contact Phone: (575)  Transporter: Acknowledgment of Printed/Typed Name (Impreso/Mecanografico):	of Delivery of			
•	Signature (Firma): X	<u> </u>		<b>Date:</b> 10-27-20	23 01:29 PM
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni		(575) 887-4048
FA	Permit No: NM-1-0035-New Mexico	Comments	:	· · · · · · · · · · · · · · · · · · ·	
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described W	/astes Were Deli	ivered To This F	acility.
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:29 PM

LEA LAND, LLC



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

	A CONTRACTOR OF THE CONTRACTOR						
NON-I	HAZARDOUS WASTE MANIFEST		<b>No.</b> 197158	Trailer No. BE	TO'S 03		
	Company Name: Earthstone Energy Phone: (281) 298-4246		Address:  1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-27-2023 01:32 PM				
GENERATOR	Name Or Description Of Waste S  X RCRA Exempt RCRA	hipped: Non-Exempt					
ENER	Weight (lbs):						
ט	Lease/Job Name: CULEBRA BLUFF						
	<b>Generator's Representative:</b> Bryan Haney						
TER	Name: Kodiak Oilfield Services  Emergency Contact: Sonia						
08	Emergency Contact Phone: (575) 706-1350						
TRANSPORTER	Transporter: Acknowledgment o	-					
RA.	Printed/Typed Name (Impreso/Mecanografico):	anvel (	9CHOA				
	Signature (Firma): X	140		<b>Date:</b> 10-27-20	23 01:32 PM		
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, Ni	· ·	(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico	Comments:	:				
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described W	astes Were Deli	ivered To This F	acility.		
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-27-2023	<b>Time</b> 01:32 PM		

LEA LAND, LLC



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

NON	I-HAZARDOUS WASTE MANIE	FEST	<b>No.</b> 196481	Trailer No.	MENDEZ 107				
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodle The Woodla	Disposal Date: 10-16-2023 08:38 AM					
	Name Or Description Of Was	ste Shipped: CRA Non-Exe	mpt						
	Weight (lbs): 3398 Lease/Job Name: CTB 3 PRODUCE WATER RELI	477(10,5398) T081720 Lease/Job Name:							
	Generator's Representative: Bryan Haney								
ORTER	Name: Mendez Trucking LOC International  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738								
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Augus  Date: 10-16-2023 08:38 AM								
CILITY	Lea Land, LLC	Mile Mar Miles Ea	ker 64, U.S. Hwy	/ 62/180, 30	(575) 887-4048				
FA	Permit No: Comments:								
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Above	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
SIG	Authorized Signature:	Unit No: Date Time 10-16-2023 08:38 AM							



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

NON	-HAZARDOUS WASTE MANIFE	ST No. 19	6483	Trailer No. M	ENDEZ 106				
OR	Company Name: Earthstone Energy Phone: (281) 298-4246	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposal Date: 10-16-2023 08:44 AM							
GENERATOR	Name Or Description Of Wast	e Shipped: RA Non-Exempt							
GENE	Weight (lbs): 369403032  Lease/Job Name*; CTB 3 PRODUCE WATER RELEA		Tolo	7260					
	Generator's Representative: Bryan Haney								
ORTER	Name: Mendez Trucking WC International (MS)  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738								
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Uslo Wirce  Signature (Firma): X Uslo Wirce  Date: 10-16-2023 08:44 AM								
CILITY	Lea Land, LLC	Mile Marker 64, U. Miles East Of Carl	S. Hwy sbad, N	62/180, 30 M	(575) 887-4048				
FA	Permit No: Comments:								
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Above	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DISF	Authorized Signature:  Unit No: Date 10-16-2023 Time 08:44 AM								



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

NON	-HAZARDOUS WASTE MANII	FEST	No. 196484	Trailer No. (	GREEN TRUCK				
~	Company Name: Earthstone Energy Phone: (281) 298-4246			och Forest Dr., #3 nds, TX 77380	Disposal Date: 10-16-2023 08:49 AM				
GENERATOR	Name Or Description Of Wa	ste Shipped: CRA Non-Exemp	ot						
GENE	Weight (lbs): 33740, 273  Lease/Job Name: CTB 3 PRODUCE WATER REL	33740,27340 To 61080  Lease/Job Name:							
	Generator's Representative:  Bryan Haney Bryan Haney								
ORTER	Name: Mendez Trucking - COC International  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738								
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico):  Signature (Firma): X  Date: 10-16-2023 08:49 AM								
CILITY	Lea Land, LLC	Mile Marke Miles East	er 64, U.S. Hwy Of Carlsbad, N	/ 62/180, 30 IM	(575) 887-4048				
FA	Permit No: Comments: NM-1-0035-New Mexico								
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.								
DISF	Authorized Signature:  Unit No:  Date 10-16-2023  08:49 AM								



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

NON	-HAZARDOUS WASTE MANIF	EST	<b>No.</b> 196486	Trailer No.	/3 14			
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246	*	Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Disposi Date: 10-16-20 08:57 A					
	Name Or Description Of Was	ste Shipped: :RA Non-Exem	pt					
	Weight (lbs): 350  Lease/Job Name: CTB 3 PRODUCE WATER RELE	160 EASE	Tc. 68	3940	Who are A second and a second a			
	Generator's Representative:  Bryan Haney Bryan Haney (MS)							
ORTER	Name: Mendez Trucking LOC International (Ms)  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738							
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Rena Eduardo  Signature (Firma): X Moden  Date: 10-16-2023 08:57 AM							
CILITY	Lea Land, LLC		er 64, U.S. Hwy Of Carlsbad, N		(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DIS	Authorized Signature:		Unit No:	<b>Date</b> 10-16-2023	<b>Time</b> 08:57 AM			



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

NON	-HAZARDOUS WASTE MANI	FEST	<b>No.</b> 196494	Trailer No.	VJ 12			
GENERATOR	Company Name: Earthstone Energy Phone: (281) 298-4246		Address: 1400 Woodloch Forest Dr., #300 The Woodlands, TX 77380  Dispos Date: 10-16-2 09:19 A					
	Name Or Description Of Wa	ste Shipped: CRA Non-Exem	pt					
GENE	Weight (lbs):  CTB 3 PRODUCE WATER REL	Te						
	Generator's Representative:  Bryan Haney Bryan Haney (MS)							
ORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320							
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): Emalo  Signature (Firma): Lemalo  Date: 10-16-2023 09:19 AM							
CILITY	Lea Land, LLC	Mile Mark	er 64, U.S. Hwy t Of Carlsbad, N	62/180, 30	(575) 887-4048			
FA	Permit No: Comments: NM-1-0035-New Mexico							
DISPOSAL	Disposal Facility's Certification:  I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.							
DISF	Authorized Signature							



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

NON	-HAZARDOUS WASTE MANIFI	EST No.	196496	Trailer No.	CROSSPOINT	74			
	Company Name: Earthstone Energy Phone: (281) 298-4246	140		ch Forest Dr., # ds, TX 77380	Dispos Date: 10-16-20 09:24 A	023			
GENERATOR	Name Or Description Of Wass	te Shipped: RA Non-Exempt							
GENE	Weight (lbs):		To						
	CTB 3 PRODUCE WATER RELE	ASE							
	Generator's Representative:  Bryan Haney Bryan Hane	e (ms)							
-51	Name: LOC International	4019							
ER	Emergency Contact: David Ho	ooper							
ORT	Emergency Contact Phone: 325-650-2320								
TRANSPORTER	Transporter: Acknowledgmen Printed/Typed Name (Impreso/Mecanografico); Signature (Firma): X		lder	<b>Date:</b> 10-16-2	2023 09:24 AM				
CILITY	Lea Land, LLC	Mile Marker 64, Miles East Of Ca	U.S. Hwy rlsbad, N	62/180, 30 M	(575) 887-4	048			
FA	Permit No: NM-1-0035-New Mexico	Comments:							
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Abov	: e-Described Wastes	Were Del	livered To This	Facility.				
DISE	Authorized Signature:	Unit I	No:	<b>Date</b> 10-16-2023	<b>Time</b> 09:24 AM				



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

NON-	HAZARDOUS WASTE MANIF	EST	<b>No.</b> 196480	Trailer No. ME	NDEZ 10					
	Company Name: Earthstone Energy  Phone: (281) 298-4246			och Forest Dr., #300 nds, TX 77380	Disposal Date: 10-16-2023 08:28 AM					
GENERATOR	Name Or Description Of Was	ste Shipped: :RA Non-Exem	pt							
CENE	Weight (lbs): 41280,36260  Lease/Job Name: CTB 3 PRODUCE WATER RELE	D <sub>1</sub>	To	77540						
	I D	(MS) Bryan Ita	neu	The Articles	7					
ORTER	Name: Mendez Trucking LOC International  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738									
TRANSPORTER	Transporter: Acknowledgment Printed/Typed Name (Impreso/Mecañografico):	Alfredo A	Mendez	<b>Date:</b> 10-16-202	.3 08:28 AM					
CILITY	Lea Land, LLC	the state of the same of the s	ker 64, U.S. Hw st Of Carlsbad,	The state of the s	(575) 887-4048					
FA	Permit No: Comments: NM-1-0035-New Mexico									
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Abo		Wastes Were D	elivered To This Fa	cility.					
DISF	Authorized Signature:	3	Unit No:		<b>Fime</b> 08:28 AM					



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

NON	-HAZARDOUS WASTE MANI	FEST	<b>No.</b> 196497	Trailer No.	VJ 13						
	Company Name: Earthstone Energy Phone: (281) 298-4246	·		och Forest Dr., # nds, TX 77380	Disposal Date: 10-16-2023 09:28 AM						
GENERATOR	Name Or Description Of Wa	aste Shipped: CRA Non-Exem	pt								
GENE	Weight (lbs): Lease/Job Name: CTB 3 PRODUCE WATER REL	TQ LEASE									
	Generator's Representative: Bryan Haney Bryan J	taneri (ms)									
ORTER	Name: Mendez Trucking LOC International (Ms)  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738										
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico)	(Impreso/Mecanografico): HIACOA IN ZUNZA									
CILITY	Lea Land, LLC	Mile Mark	er 64, U.S. Hwy t Of Carlsbad, N	y 62/180, 30 NM	(575) 887-4048						
FA	Permit No: NM-1-0035-New Mexico	Comment	s:								
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Abo		Wastes Were De	elivered To This	Facility.						
SIS	Authorized Signatures		Unit No:	Date	Time						



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

NON	-HAZARDOUS WASTE MANIFE	EST	No. 196498	Trailer No.	VJ 08						
~	Company Name: Earthstone Energy Phone: (281) 298-4246			och Forest Dr., # nds, TX 77380	Disposal Date: 10-16-2023 09:31 AM						
GENERATOR	Name Or Description Of Wast	te Shipped: RA Non-Exen	npt								
GENE	Weight (lbs): Lease/Job Name: CTB 3 PRODUCE WATER RELEA	T@ ASE	10.00								
	Generator's Representative: Bryan Haney										
ORTER	Name: Mendez Trucking LOC International (MS)  Emergency Contact: Timo Vasquez  Emergency Contact Phone: (575) 361-2738										
TRANSPORTER	Transporter: Acknowledgment Printed/Typed Name (Impreso/Mecanografico): Signature (Firma): X	(Impreso/Mecanografico):									
CILITY	Lea Land, LLC	Mile Mar Miles Eas	ker 64, U.S. Hwy st Of Carlsbad, N	y 62/180, 30 NM	(575) 887-4048						
FA	Permit No: NM-1-0035-New Mexico	Commen	ts:	ù.							
DISPOSAL	Disposal Facility's Certification I Hereby Certify That The Above	: e-Described	Wastes Were De	livered To This	Facility.						
DISE	Authorized Signature		Unit No:	<b>Date</b> 10-16-2023	<b>Time</b> 09:31 AM						



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

NON	-HAZARDOUS WASTE MANII	FEST	<b>No.</b> 196504	Trailer No.	MENDEZ 108					
~	Company Name: Earthstone Energy  Phone: (281)-298-4246	na fina		och Forest Dr., # nds, TX 77380	Disposal Date: 10-16-2023 09:50 AM					
GENERATOR	Name Or Description Of Wa	ste Shipped: CRA Non-Exen	npt							
ENE	Weight (lbs):		To							
•	Lease/Job Name: CTB 3 PRODUCE WATER REL	EASE			(C-10)— yo					
	<b>Generator's Representative:</b> Bryan Haney									
ORTER	Name: LOC International  Emergency Contact: David Hooper  Emergency Contact Phone: 325-650-2320									
TRANSPORTER	Transporter: Acknowledgment of Delivery of Material  Printed/Typed Name (Impreso/Mecanografico): AFF TO BATE S Date: 10-16-2023 09:50 AM									
CILITY	Lea Land, LLC	Mile Mar Miles Eas	ker 64, U.S. Hwy st Of Carlsbad, N	/ 62/180, 30 NM	(575) 887-404					
FA	Permit No: NM-1-0035-New Mexico	Commen	ts:							
DISPOSAL	Disposal Facility's Certificatio I Hereby Certify That The Abo	on: ove-Described	Wastes Were De	elivered To This	Facility.					
DISI	Authorized Signature:	7	Unit No:	<b>Date</b> 10-16-2023	<b>Time</b> 09:50 AM					



APPENDIX E
Laboratory Analytical Data Reports



October 18, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:44.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

#### Sample ID: G - 4 (6-6.5) (H235682-01)

BTEX 8021B

DILX 0021B	ilig	/ Ng	Allalyze	a by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 6 (2-2.5) (H235682-02)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 8 (6-6.5) (H235682-03)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	1880	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

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

Received: 10/17/2023 Reported: 10/18/2023

 10/17/2023
 Sampling Date:
 10/17/2023

 10/18/2023
 Sampling Type:
 Soil

Project Name: CTB3 PRODUCED WATER RELEASE
Project Number: NOVONM2308/001

LOVING, NEW MEXICO

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

#### Sample ID: G - 11 (8-8.5) (H235682-04)

Project Location:

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	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: Sampling Type: Soil 10/18/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: NOVONM2308/001 Dionica Hinojos

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 14 (4-4.5) (H235682-05)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B		g/kg Analyzed		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: Sampling Type: Soil 10/18/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Dionica Hinojos NOVONM2308/001 Sample Received By:

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 16 (3-3.5) (H235682-06)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/17/2023 Reported: 10/18/2023

CTB3 PRODUCED WATER RELEASE

Project Name: CTB3 PRODUCED WATE
Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

#### Sample ID: G - 17 (3-3.5) (H235682-07)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: JH

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#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 20 (4-4.5) (H235682-08)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: Sampling Type: Soil 10/18/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 21 (4-4.5) (H235682-09)

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	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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#### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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 whistoever 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 of 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.

Celey D. Keene

# ARDINAL aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira

Inta Bonaire  State: TX ZIP: 78412  Attn: -3126  ONM 2308/001  CIES Produce Water Release CFB S Nobles I State: Zip: Loving, New Mexico  H.Gonzalez, R.Vinson, O.Gonzalez  H.Gonzalez, R.Vinson, O.Gonzalez  Matrix  PRESERV. SAMPLING
## State: TX ZIP: 78412 ## Attn:  ## Address:    City:   City:   City:   City:   Zip:
Address:  CIBS Produce Water Release TBB Modul (skel 16 days)  Loving, New Mexico  H.Gonzalez, R.Vinson, O.Gonzalez  Matrix  PRESERV. SAMPLING
City:  CIES Produce Water Release CFB S Mobile I who File State: Zip:  Loving, New Mexico  H.Gonzalez, R.Vinson, O.Gonzalez  Matrix  PRESERV. SAMPLING
CIBS Produce Water Release TBB Moderal Mobine State: Zip:  Loving, New Mexico  H.Gonzalez, R.Vinson, O.Gonzalez  Matrix   PRESERV. SAMPLING
H.Gonzalez, R.Vinson, O.Gonzalez    Matrix   Preserv.   Sampling   Preserv.   Sampling   Preserv.
H.Gonzalez, R.Vinson, O.Gonzalez    H.Gonzalez, R.Vinson, O.Gonzalez   Fax #:   Fax #:   PRESERV.   SAMPLING
Matrix Preserv. SAMPLING
MP.
ERS ATER ER
)RAB OR CONTAIN ROUNDW ASTEWAT IIL LUDGE HER EID/BASE E/ COOL HER
1 X X X ATT-LOS INV X X
(5') (C) 1   X   X /017-2020 1020   X   X
6-6-5) @ 1   X   X   WYT-100 10
4671 (8-8-5) © 1   X   X   M-17-124 1080   X   X   X
10-17-203 10
1 X X /5/7-20-3 /04/0 X X
1 X X 10-10-203 1045 X X
X X Q20/ XXX-03 X X
P 1
(S) IIASE NOTE: Usbilly and Damages. Certifielts isbilly and client's subsity and client for the amalyses. All clients including bross for regigners and any other cause whatsoever shall be deemed we'red unless made in water and including willout including willout including willout including bross of profits incurred by client, its subsidiance.  (S) Illass or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or officialists.
Date:   Werbal Result:
Time:  Received By:  Remarks: 24 PAT
Delivered By: (Circle One) Observed Temp. *C   70C   Sample Condition   CHECKED BY: Turnavound Time: Standard   Bacteria (only) Sample Condition   Cool Intact   Cool Inta
ONIX

Page 12 of 12



October 23, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil
Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

Sample ID: G - 8 (10-10.5) (H235773-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 400 Chloride 16.0 16.0 10/23/2023 ND 100 400 3.92

Sample ID: G - 14 (10-10.5) (H235773-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 10/23/2023 ND 400 100 400 3.92

Sample ID: G - 20 (12-12.5) (H235773-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/23/2023	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keine



#### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023 Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

#### Sample ID: G - 25 (12-12.5) (H235773-04)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 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	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

#### Sample ID: G - 3 (10-10.5) (H235773-05)

BTEX 8021B

DILX GOZID	mg/ kg		Allalyzea by. Att						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



#### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

#### Sample ID: G - 7 (10-10.5) (H235773-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7 % 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

#### Sample ID: G - 9 (10-10.5) (H235773-07)

BTEX 8021B

DILX GOZID	mg/ kg		Allalyzea by. Att						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023 Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 24 (12-12.5) (H235773-08)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	256	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celecy D. Keene



### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by 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 whistoever 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

City: Corpus Christi Project Manager: Bryan Haney Company Name: Altamira Address: 4229 Punta Bonaire **CARDINAL** Laboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 State: X ZIP: 78412

> Attn: Company:

P.O. #: Direct Bill Earthstone BILL TO

ANALYSIS REQUEST

City: Zip:	,	,
Phone #: Fax #: PRESERV. SAMPI	Phone #: Fax #: PRESERV. SAMPLING	SERV.
	0 1 12 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	No No

Released to Imaging: 3/21/2024 2:28:20 PM



October 24, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 9:01.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023
Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

A ... - I. ... - - - I D. ... A14/

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 2 (10-10.5') (H235780-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023

Reported: Sampling Type: Soil 10/24/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: NOVONM2308/001 Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 12 (18-18.5') (H235780-02)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/23/2023 Reported: 10/24/2023

CTB3 PRODUCED WATER RELEASE

Project Name: Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO Sampling Date: 10/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: G - 13 (18-18.5') (H235780-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	240	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



Tamara Oldaker

### Analytical Results For:

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

Received: 10/23/2023 Reported:

Sampling Date: 10/21/2023 Sampling Type: Soil 10/24/2023 CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact

Project Name: Project Number: NOVONM2308/001

mg/kg

Sample Received By: Project Location: LOVING, NEW MEXICO

Sample ID: G - 18 (18-18.5') (H235780-04)

BTEX 8021B

	91	9		··· = <b>/</b> · · · · · ·					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
-									

Analyzed By: AW

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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### Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023

Reported: Sampling Type: Soil 10/24/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 19 (18-18.5') (H235780-05)

BTEX 8021B	mg/	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 6 (17-17.5') (H235780-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

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### Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

ma/ka

### Sample ID: G - 10 (17-17.5') (H235780-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/23/2023	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	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Fax To:

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

Sample ID: G - 11 (17-17.5') (H235780-08)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 384 10/23/2023 400 400 3.92 16.0 ND 100

Sample ID: G - 16 (17-17.5') (H235780-09)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 656 16.0 10/23/2023 400 400 3.92 ND 100

Sample ID: G - 17 (17-17.5') (H235780-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	

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### Analytical Results For:

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

Received: 10/23/2023 Reported: 10/24/2023

CTB3 PRODUCED WATER RELEASE

Project Number: NOVONM2308/001 Project Location: LOVING, NEW MEXICO Sampling Date: 10/22/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: G - 22 (17-17.5') (H235780-11)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2023	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	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: Sampling Type: Soil 10/24/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: NOVONM2308/001 Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 23 (17-17.5') (H235780-12)

BTEX 8021B	mg,	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	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	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by 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

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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Al	amira											
Company manie. Mailing	0				6	BILL TO			A	ANALYSIS	REQUEST	
Project Manager: Bryan Haney	yan Haney				P.O. #: Dire	Direct Bill Earthstone			4	-		
Address: 4229 Punta Bonaire	a Bonaire				Company:				_			
City: Corpus Christi	State:	te: TX ZIP: 78412			Attn:			_		_		
Phone #: 361-658-3126	26				Address:			_	_			
Project NVON	NVONM 2308/001				Citv:			_	_		_	
Project Name:	CTB3 Produce Water Release	r Release			State:	Zip:		_	_		_	
Project Location:	Loving, New Mexico				Phone #:				0	_		
Sampler Name:	H.Gonzalez, R.Vinson, O.Gonzalez	n, O.Gonzalez			Fax #:				I	_	_	
FOR LAB USE ONLY				Matrix	PRESERV	SAMPLING	6		) _			
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Mivered By: (Circle One)  Mipler - UPS - Bus - Other:	ne) Other:	Observed Temp. °C Corrected Temp. °C	5.0	Sample Condition Cool Infact    Nes   165	CHEC CHEC	CHECKED BY:	Turnaround Turne: Rush   Thermometer ID Correction Factor	Standard Cool Intact	Bacteria (or Observed Temp. 'C	Bacteria (only) Sample Condition red Temp. 'C		
Received Form-Good 3.2 100072	+	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	changes	. Please email chang	es to celey.ke	eene@cardinalla	bsnm.com					
1												

Page 13 of 14

### Page 197 of 335

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Marie Language of State of the Party of the										
Droinet Manager Deci				BILL	170				ANALYSIS	REQUEST
Project manager: Bryan Haney	Haney			P.O. #: Direct Bil	Direct Bill Earthstone			1		
Address: 4229 Punta Bonaire				Company:						
City: Corpus Christi	State: TX ZIP: 78412	12		Attn:						
367				Address:			_		_	
MNONN	2308/001			City:						
	C183 Produce Water Release				Zip:					
2	Loving, New Mexico			Phone #:					n	
ime:	H.Gonzalez, R.Vinson, O.Gonzalez			Fax #:					I	
FOR LAB USE ONLY			Matrix	PRESERV.	SAMPLING				-	
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123 123 Inquished By:	10/25/1043	-0	MILLIONO I		N N	Verbal Result: ☐ Yes All Results are emailed.	☐ Yes emailed.		ovide Email ad	Add'l Phone #: dress:
2/10/2		Received By	д ву:		20	REMARKS	27	1	TAT	
by OCD Pripler - UPS - Bus - Other:	her: Observed Temp. °C Corrected Temp. °C	5.0	Sample Condition Cool Intact  Tras Stress	CHECKED BY:		Turnaround Time: Rush	Standard Cool Intact	Observed Temp. 'C	Bacteria (only) Sample Cendition of Temp. 'C	ddan

Page 14 of 14



October 25, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 1 ( 0-10' ) (H235846-01)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 2 ( 0-6" ) (H235846-02)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4	% 49.1-14	8						

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Celeg D. Freene



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 3 ( 0-10' ) (H235846-03)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.6	% 49.1-14	8						

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Celeg D. Freene



### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: LOVING, NEW MEXICO

ma/ka

### Sample ID: SW - 4 ( 0-10' ) (H235846-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	112	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 5 ( 0-10' ) (H235846-05)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 6 ( 0-4' ) (H235846-06)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 7 ( 0-12' ) (H235846-07)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 8 ( 0-17' ) (H235846-08)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

CTB3 PRODUCED WATER RELEASE

mg/kg

Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: SW - 9 ( 0-17' ) (H235846-09)

Project Name:

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	560	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 10 ( 0-17' ) (H235846-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023 Sampling Date: 10/24/2023
Sampling Type: Soil

Project Name: Project Number:

BTEX 8021B

CTB3 PRODUCED WATER RELEASE NOVONM2308/001

mg/kg

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 11 ( 0-18' ) (H235846-11)

DILX GOZID	ıııg,	, kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

Analyzed By: JH

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10/24/2023

Dionica Hinojos

### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

10/25/2023Sampling Type:SoilCTB3 PRODUCED WATER RELEASESampling Condition:Cool & Intact

Sampling Date:

Sample Received By:

Project Name: CTB3 PRODUCED WATER RELEASE
Project Number: NOVONM2308/001

mg/kg

Project Location: LOVING, NEW MEXICO

Sample ID: SW - 12 ( 0-17' ) (H235846-12)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						

Analyzed By: JH

 Surrogate: 1-Chlorooctadecane
 84.8 %
 46.2-134

 Surrogate: 1-Chlorooctadecane
 82.8 %
 49.1-148

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 13 ( 0-17' ) (H235846-13)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023 Project Name: CTB3 PRODUCED WATER RELEASE

Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 14 ( 0-18' ) (H235846-14)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 15 ( 6-18' ) (H235846-15)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	103 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: G - 28 ( 6"-1' ) (H235846-16)

BTEX 8021B

	<u> </u>	<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: G - 29 ( 6"-1' ) (H235846-17)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/25/2023	ND	416	104	400	0.00	
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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 30 ( 6"-1' ) (H235846-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	18						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: G - 31 ( 6"-1' ) (H235846-19)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

Sample ID: G - 2 ( 17-17.5' ) (H235846-20)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 80.0 10/25/2023 416 400 0.00 16.0 ND 104

Sample ID: G - 16 ( 18-18.5' ) (H235846-21)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 784 16.0 10/25/2023 416 400 0.00 ND 104

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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

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

Project Manager: Bryan Haney	an Haney		BO #: Direct Bill Forth			ANALYSIS	SIS REQUEST	
Address: 4229 Punta Bonaire	Bonaire		Company:	TOTIE	_			
City: Corpus Christi	State: TX ZIP: 78412	1412	Au-		_			
Phone #: 361-658-3126			Aun:		_			
Project NVONN	NVONM 2308/001		Address:					
Name	CTB3 Produce Water Release							
Project Location:	Loving, New Mexico		State: Zip:		_	,		
Sampler Name:	H Gonzaloz B Viscos		Phone #:		_	0		
FOR LAB USE ONLY	The Contract of the Contract o		Fax #:		_	I		
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Page 23 of 25

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

Droinet Management											B	BILL TO				ANA	ANALYSIS REQUEST	1
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Address: 4229 Punta Bonaire	Bonaire								Con	Company:	.Yr							
Phone # 261 OFF CALL	State: TX ZIP: 78412	12							Attn:	-								
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Project NVONM	NVONM 2308/001								City:									
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Page 24 of 25

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Page	222	of 335
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Altamira

Project Manager: Bryan Haney	nev				BILL	LL TO				ANALYSIS	S REQUEST	
Address: A228 Busts Barrier					P.O. #: Direct Bill Earthstone	Bill Earthstone						
City: Corpus Christi	State: TX				Company:							
Phone #: 361-658-3106	1				Attn:							_
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Page 25 of 25



October 27, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: 10/27/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 16 (0-12) (H235887-01)

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	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	448	112	400	7.41	
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	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: 10/27/2023 Sampling Type: Soil Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition:

Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 16 (18-18.5) (H235887-02)

Chloride, SM4500CI-B	mg	ı/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 10A	(0-17) (H23588	37-03)							
Chloride, SM4500Cl-B	mg	j/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 11A	(0-18) (H23588	37-04)							
Chloride, SM4500CI-B	mg	ı/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 12A	(0-17) (H23588	37-05)							
Chloride, SM4500Cl-B	mo	ı/kg	Analyze	d By: AC					

### Chloride, SM4500Cl-B ma/ka

Cilioride, 31-14-300Ci-D	ilig	/ Ng	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	416	104	400	0.00	

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### Analytical Results For:

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

Received: 10/26/2023 Reported: 10/27/2023

CTB3 PRODUCED WATER RELEASE

ma/ka

Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 17 (0-17) (H235887-06)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/27/2023	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	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: 10/27/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NOVONM2308/001 Sample Received By:

Project Location: LOVING, NEW MEXICO

Sample ID: SW - 13A Chloride, SM4500Cl-B	. (0-17) (H23588 mg,	=	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 6A	(0-4') (H235887-	08)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 5A	(0-10') (H235887	-09)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/27/2023	ND	416	104	400	0.00	
Chloride  Sample ID: SW - 1A	560 (0-10') (H235887	20.0	10/27/2023	ND	416	104	400	0.00	
		<b>7-10</b> )		ND d By: AC	416	104	400	0.00	

Chioride, SM4500CI-B	mg,	кg	Analyze	u by: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/27/2023	ND	416	104	400	0.00	

### Sample ID: G - 31 (1-1.5) (H235887-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2023	ND	416	104	400	0.00	

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

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Page 7 of 8

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Company Name: Altamira										BI	BILL TO					ANALYSIS	LYS LYS		REQ	REQUEST	٦				-	-	1
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Address: 4229 Punta Bonaire	aire							Corr	Company:	\ X.																	
City: Corpus Christi	State: TX	ZIP: 78412						Attn:	l "			1													_	_	
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BILL TO

ANALYSIS REQUEST

Company Name: Altamira			BILL TO		ANA	ANALYSIS REQUEST	
Project Manager: Bryan Haney		P	P.O. #: Direct Bill Earthstone				
Address: 4229 Punta Bonaire		0	Company:				
	State: TX ZIP: 78412	Þ	Attn:				
Phone #: 361-658-3126		Þ	Address:				
Project NVONM 2308/001		0					
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Project Location: Loving, New Mexico	deo	70	Phone #:		Ι.		
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EASE NOTE: Lability 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 the client for the analyses. All claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and a subsidiaries, and the subsidiaries or successors arising out of or equipment to the performance of services thereunder by Cerdinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	it's exclusive remedy for any claim arising whether based in cor idental or consequental damages, including without limitation se of services hereunder by Cardinal, regardless of whether	tract or tort, shall be limited to the amount pain, business interruptions, loss of use, or loss such claim is based upon any of the above	d by the client for the lanalyses. All claims inch so profits incurred by client, its subsidiaries, stated reasons or otherwise.	uding those for negligence and an	ry omer cause whatsoever so	ади об оветей учений макей дея выпоставлений в пределений макей и сести в пределений и сести	28:20
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Page 8 of 8



October 23, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 8:01.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

### Sample ID: BF - 1 (H235748-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO

### Sample ID: BF - 2 (H235748-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.2	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 10/20/2023 Reported: 10/23/2023

CTB3 PRODUCED WATER RELEASE

Project Name: CTB3 PRODUCED WATE
Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: BF - 3 (H235748-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: 10/23/2023 Sampling Type: Soil Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

### Sample ID: BF - 4 (H235748-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

Company Name: Altamira			В	BILL TO			ANALYSIS REC	REQUEST	E
Project Manager: Bryan Haney			P.O. #: Dire	P.O. #: Direct Bill Earthstone					
Address: 4229 Punta Bonaire			Company:						
City: Corpus Christi	State: TX ZIP: 78412		Attn:				9		_
Phone #: 361-658-3126			Address:				-		_
Project NVONM 2308/001	М		City:				4		
Name:	CTB3 Produce Water Release		State:	Zip:			C		
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2 84	0-2	+			3/5	×	×		
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he applicable service. In no event shall cardinal be segment to the performance of or paletted to the performance of the perfor	nce of sepides hereunder by Cardinal, regero	Bess of whether such claim is besed upon	such claim is based upon any of the above stated reasons or otherwise.						
12:Relinquished By:	Tripe: 10	Received By:	NO L	DIE	VII Results are em	ailed. Pleas	Verbal Results	SV.	-
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Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View northwest at release area located northwest of point of release



October 10, 2023 – view northwest at point of release and release area northwest of release



View of pipe point of release and release area to the northwest



View north at release area



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface imact



View south at remedation area

Appendix B
Photograph Log – Culebra Bluff CTB3 Produced Water Release
Incident ID: nAPP2328543797



View showing backfill of excavation area



View showing complete backfilled area



View of pipe point of release and release area to the northwest



View north at release area



View of active soil remediation south of point of release immediately adjacent to pipeline



View north at active soil excavation activities



View north at remedaiton area and outline of area south of pipeline rise showing minimal surface imact



View south at remedation area



View showing backfill of excavation area



Reclamation - View showing complete backfilled, contoured, & seeded area



Reclamation - View showing complete backfilled, contoured & seeded area



Reclamation - View showing complete backfilled, contoured & seeded



Reclamation - View showing complete backfilled, contoured & seeded area



Reclamation - View showing complete backfilled, contoured & seeded area



October 18, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:44.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/17/2023 Reported: 10/18/2023

CTB3 PRODUCED WATER RELEASE

mg/kg

Project Name: CTB3 PRODUCED W Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: G - 4 (6-6.5) (H235682-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 6 (2-2.5) (H235682-02)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 8 (6-6.5) (H235682-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: Sampling Type: Soil 10/18/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Dionica Hinojos NOVONM2308/001 Sample Received By:

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 11 (8-8.5) (H235682-04)

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	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 14 (4-4.5) (H235682-05)

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	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/17/2023 Reported: 10/18/2023

CTB3 PRODUCED WATER RELEASE

Project Name: CTB3 PRODUCED WATE
Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

## Sample ID: G - 16 (3-3.5) (H235682-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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10/17/2023

## Analytical Results For:

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

Received: 10/17/2023 Sampling Date:

Reported: 10/18/2023 Sampling Type: Soil
Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 17 (3-3.5) (H235682-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: Sampling Type: Soil 10/18/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Dionica Hinojos NOVONM2308/001 Sample Received By:

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 20 (4-4.5) (H235682-08)

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	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/17/2023 Sampling Date: 10/17/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 21 (4-4.5) (H235682-09)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2023	ND	1.92	96.2	2.00	0.422	
Toluene*	<0.050	0.050	10/18/2023	ND	1.90	95.1	2.00	2.17	
Ethylbenzene*	<0.050	0.050	10/18/2023	ND	2.00	99.8	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/18/2023	ND	6.01	100	6.00	2.75	
Total BTEX	<0.300	0.300	10/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2023	ND	201	100	200	17.7	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	233	117	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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## **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

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

Company Name: Altamira

Company Maine, Citalina	0							В	BILL TO				ANALYS	ANALYSIS REQUEST		
Project Manager: Bryan Haney	n Haney						9.	P.O. #: Dire	Direct Bill Earthstone							
Address: 4229 Punta Bonaire	onaire						Co	Company:								
City: Corpus Christi	State: TX ZIP: 78412	12					Attn:	'n								
Phone #: 361-658-3126						- 1	Ad	Address:								
Project NVONM	NVONM 2308/001			1			City:	y:								_
Project Name:	CIBS Produce Water Release	Sproule	and	Toke	1	6	State:	ite:	Zip:				)			
Project Location:	Loving, New Mexico						밁	Phone #:								
Sampler Name:	H.Gonzalez, R.Vinson, O.Gonzalez						Fax #:	*					- 1			
FOR LAB USE ONLY		-		Matrix			L	PRESERV	SAMPLING	6			) -			
Lab I.D.	0	(C)OMP		ER				1			œ		- x (			
	campie i.U.	AB OR	NTAINE	TEWAT		GE		COOL			т н	РН	m 0			
HZ3568Z		(G)R			SOIL	OIL	ОТНЕ	111	DATE	TIME	×	Ι.	5			
1	64 6-65)	0	1		$\overline{}$	$\overline{}$		×	6+7-208	1015	×	X	×			
2	95 (St. 5.5)	0	1	-	×			×	1017-2023	1020	X	×	X			
CA	G8 (6-6.5)	0	1	-	×	F		×	1017-2003	1005	×	×	X			
4	G11 (8-8.5)	0	ı	L	×	-		×	1017204	10%	X	×	X			
5	(5-4-h) ht	0	1	-	×	F		×	10-17-103	1035	X	×	X			
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2	641 8-3.50	0	H	+	×	F		×	10-17-203	1045	×	×	×			
000	620 (44.5)	0	1	+	×	F	t	×	10-17-10-3	1050	×	×	×			
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October 23, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

Sample ID: G - 8 (10-10.5) (H235773-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 400 Chloride 16.0 16.0 10/23/2023 ND 100 400 3.92

Sample ID: G - 14 (10-10.5) (H235773-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 10/23/2023 ND 400 100 400 3.92

Sample ID: G - 20 (12-12.5) (H235773-03)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 304 16.0 10/23/2023 400 3.92 ND 400 100

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keine



## Analytical Results For:

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

Received: 10/20/2023 Reported: 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Project Number:

NOVONM2308/001

Project Location: LOVING, NEW MEXICO Sampling Date: 10/20/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: G - 25 (12-12.5) (H235773-04)

BTEX 8021B	mg	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

## Sample ID: G - 3 (10-10.5) (H235773-05)

BTEX 8021B

	9,	9	7	<b>,</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	512	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Celey D. Keine



## Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023
Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 7 (10-10.5) (H235773-06)

BTEX 8021B	mg	/kg	Analyze	ed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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## Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/20/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

## Sample ID: G - 9 (10-10.5) (H235773-07)

BTEX 8021B

	9,	9	7	<b>,</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



10/20/2023

## Analytical Results For:

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

Fax To:

Received: 10/20/2023 Sampling Date:

Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: NOVONM2308/001 Shalyn Rodriguez

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

## Sample ID: G - 24 (12-12.5) (H235773-08)

BTEX 8021B

DILX GOZID	mg/ kg		Analyzed by: Att						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/23/2023	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	10/20/2023	ND	185	92.5	200	1.90	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	182	90.9	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

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Celey D. Keene



## **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by 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

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Celey D. Keine

## **CARDINAL**Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

REQUEST

Lab I.D.	Sample Walle.	Sampler Name:	Project Location:	Project Name:	Project NVON	Phone #: 361-658-3126	City: Corpus Christi	Address: 4229 Punta Bonaire	Project Manager: Bryan Haney	Company Name: Altamira	
Sample I.D.	II. COIRGIGE, IX. VIIIOOII, C. COIRGIGE	H Gonzalez B Vinson O Gonzalez	Loving, New Mexico	CTB3 Produce Water Release	NVONM 2308/001	126	State: TX ZIP: 78412	a Bonaire	yan Haney	tamira	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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FORM-006 R 3.2 10/07/21 † Card	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	se email changes to celey.keene@card	inallabsnm.com
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October 24, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 9:01.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

 Received:
 10/23/2023
 Sampling Date:
 10/21/2023

 Reported:
 10/24/2023
 Sampling Type:
 Soil

Reported: 10/24/2023 Sampling Type: Soil
Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact

Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Applymed By: AM

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 2 (10-10.5') (H235780-01)

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023

Reported: 10/24/2023 Sampling Type: Soil
Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 12 (18-18.5') (H235780-02)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023
Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 13 (18-18.5') (H235780-03)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	8						

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Celey & Keene



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023

Reported: Sampling Type: Soil 10/24/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: NOVONM2308/001 Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 18 (18-18.5') (H235780-04)

BTEX 8021B	mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.1	% 49.1-14	8						

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Celey D. Keene



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/21/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

## Sample ID: G - 19 (18-18.5') (H235780-05)

BTEX 8021B

DILX GOZID	mg/ kg		Andryzed by: Att						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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Celey D. Keene



## Analytical Results For:

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

Fax To:

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 6 (17-17.5') (H235780-06)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/23/2023	ND	432	108	400	3.77	

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Celey D. Keene



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 10 (17-17.5') (H235780-07)

Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS           Benzene*         <0.050         0.050         10/23/2023         ND         1.96           Toluene*         <0.050         0.050         10/23/2023         ND         1.86	% Recovery 98.2 92.9	True Value QC 2.00	RPD 2.73	Qualifier
···		2.00	2 73	
Tolueno*	92.9		2.75	
Toluene* <0.050 0.050 10/23/2023 ND 1.86		2.00	2.55	
Ethylbenzene* <0.050 0.050 10/23/2023 ND 1.88	93.8	2.00	3.65	
Total Xylenes* <0.150 0.150 10/23/2023 ND 5.56	92.6	6.00	4.84	
Total BTEX <0.300 0.300 10/23/2023 ND				
Surrogate: 4-Bromofluorobenzene (PID 117 % 71.5-134				
Chloride, SM4500Cl-B mg/kg Analyzed By: AC				
Analyte Result Reporting Limit Analyzed Method Blank BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride 528</b> 16.0 10/23/2023 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 10/23/2023 ND 227	113	200	0.915	
DRO >C10-C28* <10.0 10.0 10/23/2023 ND 199	99.6	200	3.33	
EXT DRO >C28-C36 <10.0 10.0 10/23/2023 ND				
Surrogate: 1-Chlorooctane 73.2 % 48.2-134				
Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148				

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Celey D. Keene



## Analytical Results For:

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

Received: 10/23/2023 Reported: 10/24/2023

Project Name: CTB3 PRODUCED WATER RELEASE
Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO

Sampling Date: 10/22/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: G - 11 (17-17.5') (H235780-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 384 10/23/2023 400 400 3.92 16.0 ND 100

Sample ID: G - 16 (17-17.5') (H235780-09)

Chloride, SM4500Cl-B Analyzed By: AC BS True Value QC RPD Analyte Result Reporting Limit Analyzed Method Blank Qualifier % Recovery 656 16.0 10/23/2023 400 400 3.92 Chloride ND 100

Sample ID: G - 17 (17-17.5') (H235780-10)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 80.0 10/23/2023 ND 400 400 3.92 16.0 100

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Celeg D. Freene



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/22/2023

Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Analyzed By: AW

Project Location: LOVING, NEW MEXICO

mg/kg

## Sample ID: G - 22 (17-17.5') (H235780-11)

BTEX 8021B

DIEX GOZID	mg/kg		Andryzed by: Att						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 10/23/2023 Sampling Date: 10/22/2023
Reported: 10/24/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

## Sample ID: G - 23 (17-17.5') (H235780-12)

BTEX 8021B	mg	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	1.96	98.2	2.00	2.73	
Toluene*	<0.050	0.050	10/23/2023	ND	1.86	92.9	2.00	2.55	
Ethylbenzene*	< 0.050	0.050	10/23/2023	ND	1.88	93.8	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	5.56	92.6	6.00	4.84	
Total BTEX	<0.300	0.300	10/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2023	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	10/23/2023	ND	227	113	200	0.915	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	199	99.6	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Frence



## **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by 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

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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

PROBLEM NAMED AUSTON						
			BILL TO		ANALYSIS	REQUEST
Project Manager: Bryan Haney	Haney		P.O. #: Direct Bill Earthstone	0		
Address: 4229 Punta Bonaire	naire		Company:			
City: Corpus Christi	State: TX ZIP: 78412	8412	Attn:		_	
Phone #: 361-658-3126			Address:		_	
MNONN	308/001		City:			
	CTB3 Produce Water Release		State: Zip:			
Project Location: Lo	Loving, New Mexico		Phone #:		С	
Sampler Name: H	H.Gonzalez, R.Vinson, O.Gonzalez		Fax#:		Ξ	_
Y		Matrix	PRESERV. SAMPLING	NG	) _	
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000	11/1/15	-	x 6-12-2023	1/12 ×	x x	
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106	17 (17-1751)	© 1 X	X 6.22.204	11/8 *	* *	
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nquisned by	V	Received By	Moleston	Verbal Result:	Verbal Result: ☐ Yes ☐ No Add'I All Results are emailed. Please provide Email address:	Add'I Phone #: ddress:
2/16/2		Received By:		REMARKS: 24	14-71	
by OC	er: Observed Temp. °C O/S	Sample Condition Cool_Milact Divise Divise	CHECKED BY:	Tunnaround Time: Standard Rush Cool intact Thermometer ID #448 # Correction Factor	ndard D Bacteria (only) Sample Condition intact Observed Temp. 'C	nadiblom    Yes   Yes
Kecei		† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	es to celey.keene@cardinal	labsnm.com		

Page 13 of 14

Received by OCD: 12/16/2023 12:00:20 AM

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira	mira							011											F
Project Manager: Bryan Haney	an Haney							DILL	710				ANALYSIS		REQUEST	TS			
Address: 4229 Punta Bonaire	Bonaire						Company:	Direct I	Direct Bill Earthstone							_			
City: Corpus Christi	State: TX ZIP: 78412						Attn:	4							_				
Phone #: 361-658-3126	6						Address:	S			_					_			
Project NVONN	NVONM 2308/001						City:				_				_	_			
Project Name:	CTB3 Produce Water Release					(0)	State:		Zip:						_	_			
Project Location:	Loving, New Mexico					77	Phone #		100				n		_	_			
Sampler Name:	H.Gonzalez, R.Vinson, O.Gonzalez					70	Fax #						I		_				
FOR LAB USE ONLY			Z	Matrix		L	PRES	PRESERV.	SAMPLING	6			F		_				
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20 as or successors arising out of or relia	and to the parformance of service	& limitation, b	Dusiness int ich claim is	besed upo	loss of use n any of the	or loss of above sta	profits inc	<ul> <li>business interruptions, loss of use, or loss of profits incurred by client such cliem is based upon any of the above stated reasons or otherwise</li> </ul>	K, its subsidiaries,	adidau tor aconi bu	ce and any ot	her cause wh	atsoever shall be	desmed waiv	ed unless ma	de in writing o	and received by Car	of loss of profits incomed by claret, is subcidiaries.  On the profits incomed by claret, is subcidiaries.  Show the profits incomed by claret, is subcidiaries.  Show the profits income of otherwise.	flar completion
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2/16/2	Time:	Received By	/ed By			,		1		REMARKS	2	1	B	1					
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Page 14 of 14



October 25, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

## Sample ID: SW - 1 ( 0-10' ) (H235846-01)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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Celey D. Keene



## Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

## Sample ID: SW - 2 ( 0-6" ) (H235846-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	< 0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	< 0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 %	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	96.0	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	78.3 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

CTB3 PRODUCED WATER RELEASE

ma/ka

Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: SW - 3 ( 0-10' ) (H235846-03)

Project Name:

RTFY 8021R

B1EX 8021B	mg/	кg	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	160	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.6	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023 Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 4 ( 0-10' ) (H235846-04)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 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	112	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 5 ( 0-10' ) (H235846-05)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 6 ( 0-4' ) (H235846-06)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023 Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 7 ( 0-12' ) (H235846-07)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

CTB3 PRODUCED WATER RELEASE

mg/kg

Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: SW - 8 ( 0-17' ) (H235846-08)

Project Name:

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 9 ( 0-17' ) (H235846-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/25/2023	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	10/24/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 10 ( 0-17' ) (H235846-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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10/24/2023

Soil

### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: Reported: Sampling Type:

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

10/25/2023

### Sample ID: SW - 11 ( 0-18' ) (H235846-11)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 12 ( 0-17' ) (H235846-12)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 13 ( 0-17' ) (H235846-13)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	69.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

Project Name:

CTB3 PRODUCED WATER RELEASE

Project Number: NOVONM2308/001 Project Location: LOVING, NEW MEXICO Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

### Sample ID: SW - 14 ( 0-18' ) (H235846-14)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 15 ( 6-18' ) (H235846-15)

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	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	103 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: G - 28 ( 6"-1' ) (H235846-16)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.81	90.6	2.00	5.88	
Toluene*	<0.050	0.050	10/25/2023	ND	2.16	108	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.50	125	2.00	11.7	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	7.90	132	6.00	16.2	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/25/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 29 ( 6"-1' ) (H235846-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	464	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Reported: 10/25/2023

CTB3 PRODUCED WATER RELEASE

Project Number: NOVONM2308/001
Project Location: LOVING, NEW MEXICO

Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: G - 30 ( 6"-1' ) (H235846-18)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/25/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: G - 31 ( 6"-1' ) (H235846-19)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.95	97.6	2.00	2.52	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	3.00	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.04	101	6.00	2.54	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/25/2023	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	10/25/2023	ND	163	81.6	200	3.60	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	158	79.0	200	0.0500	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/25/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Dionica Hinojos

Project Location: LOVING, NEW MEXICO

Sample ID: G - 2 ( 17-17.5' ) (H235846-20)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 80.0 10/25/2023 416 400 0.00 16.0 ND 104

Sample ID: G - 16 ( 18-18.5' ) (H235846-21)

Chloride, SM4500Cl-B Analyzed By: AC Analyzed BS True Value QC RPD Analyte Result Reporting Limit Method Blank Qualifier % Recovery Chloride 784 16.0 10/25/2023 416 400 0.00 ND 104

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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

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

Project Manager: B	Van Hanov					DNIAL	
Address: 4229 Punta Bonaire	a Rossia		P.O. #: Direct Bill Earthstone	stone	-	MINALTOIS	IS REQUEST
City: Corpus Christi			Company:		_		
Phone #: 361-658-3126	State: TX ZIP: 78412	1412	Attn:		_		
Project NVON	NVONM 2308/001		Address:		_		
Name	CTR3 Produce Mater Believe		City:		_	_	
Project Location:	Oving New Marier Release		State: Zip:		_		
Campler Name	Loving, New Mexico		Phone #:		_	0	
ORLABUSE ONLY	H. Gonzalez, R. Vinson, O. Gonzalez		Fax井		_	I	
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of successors arising putor of a quished By:	or successors ariting guild for related to the performance of services hexacute to the performance of services hexacute for cardinal, regardless of whether such claim is bessed upon any of the above stated reasons or offendada.	will will install the property of the second	or loss of profits incurred by client, to subsidiaries above stated reasons or otherwise.	s.	d any other cause	whatsoever shall be	deemed waked unless made in writing and received by Cardinal within 30 days after completion
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Page 23 of 25

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

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Add topect manager: Bryan Haney	an Haney		P.O. #: Direct Bill Earthstone	Earthstone	-	1			
Address: 4229 Punta Bonaire	Bonaire		Company:						_
City: Corpus Christi	State: TX ZIP: 78412	8412	Attn:						_
Phone #: 361-658-3126	6		Address:				_		_
Project NVONM	NVONM 2308/001		Oilu.						_
Project Name:	CTB3 Produce Water Release		State: 7in						_
Project Location:	Loving, New Mexico		Phone #				0		_
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23 12:	Liber 34	Received By:	}	All Resul	ts are emaile	d. Please	Verbal Result: ☐ Yes ☐ No Add'I All Results are emailed. Please provide Email address:	Add'  Phone #:   address:	
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ecei	_	erbai changes. Please emai	Continue carriot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	ardinallabsnm.c	om				

Page 24 of 25

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

Company Name: Altamira

Project Manager: Royan Hansy		BILL TO				ANALYSIS REQUEST	
Address 1000 C. Cryal Halley		P.O. #: Direct Bill Earthstone	stone				
Address: 4229 Punta Bonaire		Company:					
State: TX	ZIP: 78412	Attn:					
Phone #: 361-658-3126		Address:					
MNONN		City:					
CTB3 Produce Water Release		State: Zip:				_	
Project Location: Loving, New Mexico		Phone #:				0	
Sampler Name: H.Gonzalez, R.Vinson, O.Gonzalez		Fax#:					
FOR LAB USE ONLY	Matrix	SERV	NO INC				
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BE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising	(C) 1 X	n paid by the client for the analyses. All claims	including those	X X	×	×	+
out of or related to the performance of services here	werout limitation, business inter- sess of whether such claim is ba-	uptions, loss of use, or loss of profits incurred by client, its subsidiaries sed upon any of the above stated reasons or otherwise.			Annual Section	ever orani be desiried waved utless made in writing and received	received by Cardinal within 30 days after completion of 20
23 12:0	CECEIVED BY:		All Results are	☐ Yes emailed.	□ No Please pr	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	2024 2:
716/20 Time:	24 23 Received By: /		REMARKS)	1	K	1	3/21/
Corrected Temp	Sample Condition Cool Intact	n CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (en Observed Temp. 'C	Bacteria (enly) Sample Condition ed Yemp. 'C	gaina
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Page 25 of 25



October 27, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: 10/27/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

A .. . l. ... . d D. .. 311

Project Location: LOVING, NEW MEXICO

### Sample ID: SW - 16 (0-12) (H235887-01)

DTEV 0021D

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	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/27/2023	ND	448	112	400	7.41	
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	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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wite South



10/26/2023

Soil

### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: Reported: 10/27/2023 Sampling Type:

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Project Location: LOVING, NEW MEXICO

### Sample ID: G - 16 (18-18.5) (H235887-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 10A	(0-17) (H23588	37-03)							
Chloride, SM4500CI-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	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 11A	(0-18) (H23588	37-04)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 12A	(0-17) (H23588	37-05)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### Cardinal Laboratories

Chloride

\*=Accredited Analyte

0.00

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ND

416

104

400

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

240

16.0

10/27/2023



### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: 10/27/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: LOVING, NEW MEXICO

ma/ka

### Sample ID: SW - 17 (0-17) (H235887-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.06	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	4.94	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.09	104	2.00	3.37	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.24	104	6.00	2.70	
Total BTEX	<0.300	0.300	10/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/27/2023	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	10/27/2023	ND	182	90.8	200	8.03	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	199	99.5	200	0.376	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Mile Sough



### Analytical Results For:

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

Received: 10/26/2023 Sampling Date: 10/26/2023

Reported: Sampling Type: Soil 10/27/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: NOVONM2308/001 Tamara Oldaker

Project Location: LOVING, NEW MEXICO

mg/kg

### Sample ID: SW - 13A (0-17) (H235887-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/27/2023	ND	416	104	400	0.00	
Sample ID: SW - 6A (0-4	l') (H235887-	-08)							

### Chloride, SM4500Cl-B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/27/2023	ND	416	104	400	0.00	

Analyzed By: AC

### Sample ID: SW - 5A (0-10') (H235887-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/27/2023	ND	416	104	400	0.00	

### Sample ID: SW - 1A (0-10') (H235887-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/27/2023	ND	416	104	400	0.00	

### Sample ID: G - 31 (1-1.5) (H235887-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2023	ND	416	104	400	0.00	

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

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Page 7 of 8

ANALYSIS REQUEST

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

Company Name: Altamira

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erbal changes. Please email chan	ges to celey.keene@cardina	allabsnm.com			Released
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**CARDINAL** Laboratories

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

Company Name: Altamira	20			BILL TO			ANAI	ANALYSIS REQUEST	ST .	
Project Manager: Bryan Haney	Haney			P.O. #: Direct Bill Earthstone	stone					
Address: 4229 Punta Bonaire	naire			Company:						_
City: Corpus Christi	State: TX	ZIP: 78412		Attn:						
Phone #: 361-658-3126				Address:						
Project NVONM 2308/001	308/001					_				
Name:	CTB3 Produce Water Release			State: Zip:			0			
Project Location: L	Loving, New Mexico			Phone #:			I			
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Be applicable service. In no event shall littles or successors arising out of our	ASE 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 the client for the analyses. All claims in applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	claim arising whether based in confr hages, including without limitation. Cardinal, regardless of whether s	ract or tort, shall be limited to the amoun business interruptions, loss of use, or such claim is based upon any of the ab	paid by the client for the analyses. All claims including loss of profits incurred by client, its subsidiaries, ove stated reasons or otherwise.	Bulping	nce and any other o	ause whatsoever sh	III be deemed wayed unless ma	those for negligence and any other cause whatdoever shall be deemed waved unless made in writing and received by Cattinia within 30 days after complete) (2)	28:20
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Page 8 of 8



October 23, 2023

**BRYAN HANEY** 

ALTAMIRA - US

14229 PUNTA BONAIRE DR.

CORPUS CHRISTI, TX 78418

RE: CTB3 PRODUCED WATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 8:01.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/20/2023 Reported: 10/23/2023

CTB3 PRODUCED WATER RELEASE

Project Name: Project Number: NOVONM2308/001

Project Location: LOVING, NEW MEXICO Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: BF - 1 (H235748-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: Sampling Type: Soil 10/23/2023

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: NOVONM2308/001 Shalyn Rodriguez

Project Location: LOVING, NEW MEXICO

### Sample ID: BF - 2 (H235748-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: LOVING, NEW MEXICO

ma/ka

### Sample ID: BF - 3 (H235748-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

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### Analytical Results For:

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

Received: 10/20/2023 Sampling Date: 10/18/2023

Reported: 10/23/2023 Sampling Type: Soil

Project Name: CTB3 PRODUCED WATER RELEASE Sampling Condition: Cool & Intact
Project Number: NOVONM2308/001 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: LOVING, NEW MEXICO

ma/ka

### Sample ID: BF - 4 (H235748-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEX	<0.300	0.300	10/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/20/2023	ND	400	100	400	7.69	
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	10/20/2023	ND	194	96.9	200	5.94	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	176	87.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

### **ARDINAL** aboratories

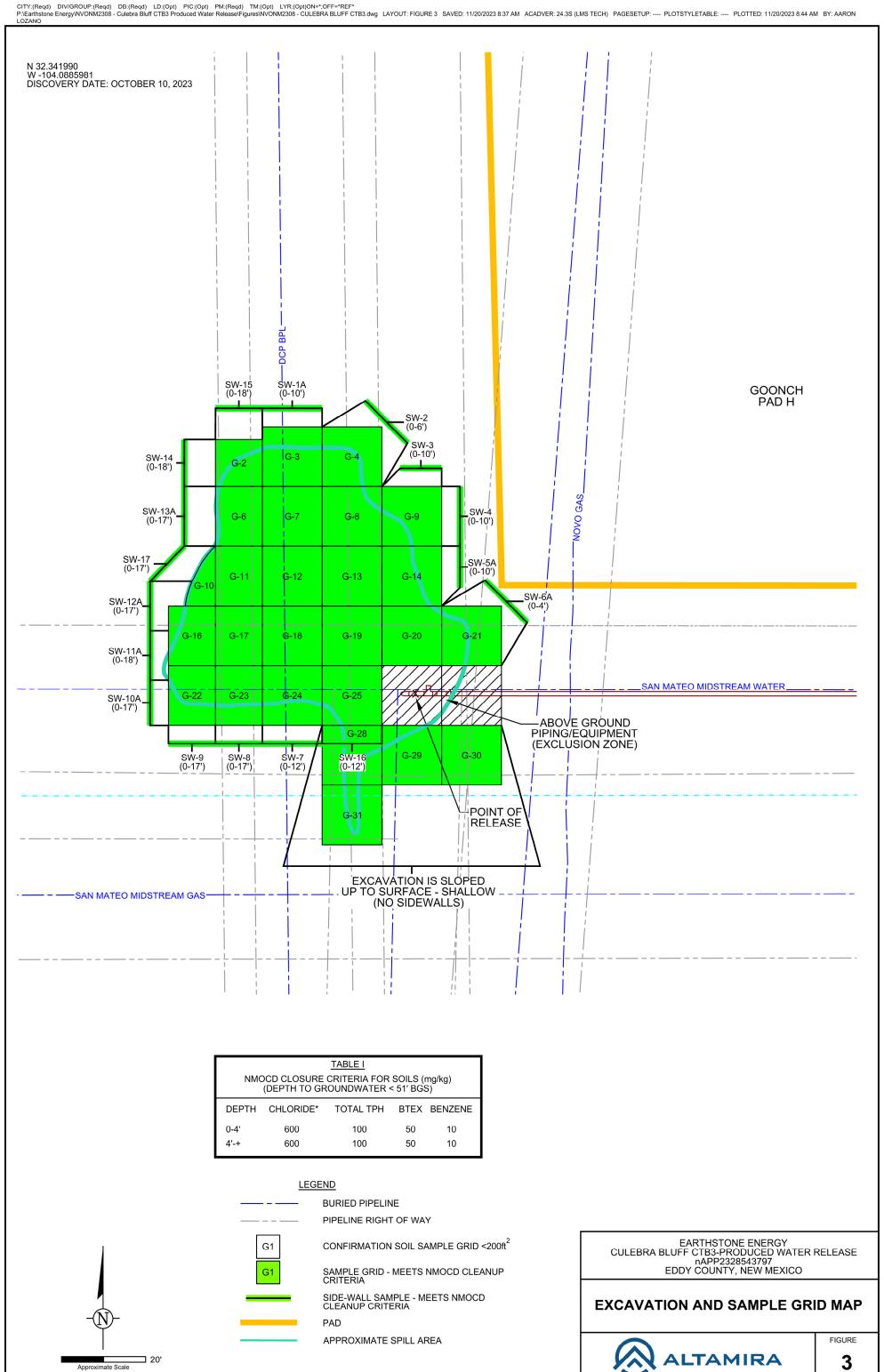
### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Altamira						BILL TO				,	ANALYSIS	SIS R	REQUEST	T			-
Broing Manager Royan Haney				Ø.	0. #: Din	P.O. #: Direct Bill Earthstone	tone										
Address: 4229 Punta Bonaire				CC	Company:				_	_	_		_				
City: Corpus Christi	State: TX ZIP: 78412			At	Attn:					_			_				
Phone #: 361-658-3126				Ac	Address:								_	_			
Project NVONM 2308/001	001			Ci	City:							4	_		_		
Name:	CTB3 Produce Water Release			St	State:	Zip:					0		_	_			
Project Location: Loving	Loving, New Mexico			P	Phone #:						I		_	_			
	H.Gonzalez, R.Vinson, O.Gonzalez			77	Fax #:						ō.		_				
		3	Matrix	-	PRESERV.	1	SAMPLING				0		_				
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7-70	0	1	×		×	10/8203	1	1	×	×	×		+	+	+	+	
Ci l	0	1	×		×	10-18	0	318	×	×	× ×		+	+	+	+	-
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I've applicable service. In no event shall Cerdinal to	o of se	ther such claim	is based upon an	of the above	stated reasons	or otherwise.											
23 12:Relinquished By:	Tipe (1)	Received By:	S O D	MO	2		All F	Verbal Result: U Yes U No (Augur All Results are emailed. Please provide Email address:	e emailed	. Please	provide	Email ad	dress:	One at			
2/16/20 Relinquished By:	Date: Re	Received By	By:	-	^	9	REN	REMARKS:	2	8 2	H	7	)				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp Corrected Temp		Sample Condition Cool Intact	ndition	1	(Initials)	Turnan Rush	Turnaround Time:	Standard  Cool Intact Ob	Obser	Bacteria (only) Sample Condition Observed Temp. 'C	) Sample Co		Type Yes			
l by O	- X-S-C	-	No   No   No   No   No   No   No   No	No	1	T	Com	Thermometer ID -#113 Correction Factor	1	5				No No	Connected Temp. 10	ń	
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Recei	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	anges.	Please ema	ail chang	es to cel	ey.keene@ca	rdinallab	snm.com									

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Page 7 of 7



<u>District I</u> 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

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 294081

### **QUESTIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2328543797
Incident Name	NAPP2328543797 CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE
Date Release Discovered	10/10/2023
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	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

faterial(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: Normal Operations   Pipeline (Any)   Produced Water   Released: 50 BBL   Recovered: 25 BBL   Lost: 25 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)	release was general confined to a small area. Volume was determined using dimensions of the release area.

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** 

### **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 294081

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	2 1 0, 14th 07 000	
QUEST	IONS (continued)	
Operator:  NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000  Midland, TX 79701	OGRID:	
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	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i	e. gas only) are to be submitted on the C-129 form.	
Initial Response  The responsible party must undertake the following actions immediately unless they could create a	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	All have been completed	
	ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o sted 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.	
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or	
	Name: Bryan Haney	

Title: Senior Project Manager

Email: bryan.haney@altamira-us.com Date: 12/13/2023

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

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

Action 294081

**QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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 ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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	Yes

Remediation Plan		
Please answer all the questions th	at apply or are indicated. This information must be provided t	o 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 de	monstrating the lateral and vertical extents of soil contamination	on 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	l extents of contamination been fully delineated	Yes
Was this release entirely of	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	10400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date wi	Il the remediation commence	10/12/2023
On what date will (or did) the	ne final sampling or liner inspection occur	10/26/2023
On what date will (or was)	the remediation complete(d)	10/28/2023
What is the estimated surfa	ace area (in square feet) that will be reclaimed	4800
What is the estimated volui	me (in cubic yards) that will be reclaimed	1800
What is the estimated surfa	ace area (in square feet) that will be remediated	4800
What is the estimated volume	me (in cubic yards) that will be remediated	1800
These estimated dates and measu	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 294081

### **QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### 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)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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: Bryan Haney Title: Senior Project Manager

Email: bryan.haney@altamira-us.com Date: 12/14/2023

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**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 294081

**QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

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

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### 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 294081

**QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	291189
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2023
What was the (estimated) number of samples that were to be gathered	48
What was the sampling surface area in square feet	9000

Remediation Closure Request			
Only answer the questions in this group if seeking remediation closure for this release because all re	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	4800		
What was the total volume (cubic yards) remediated	1800		
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	4800		
What was the total volume (in cubic yards) reclaimed	1800		
Summarize any additional remediation activities not included by answers (above)	Affected soil was physically removed and disposed of at an off site facility. Following confirmation soil sampling, the remediated area was backfilled, compacted and contoured. The area was seeded using BLM#2 seed and cover grass per the BLM		

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

I hereby agree and sign off to the above statement

Title: Senior Project Manager
Email: bryan.haney@altamira-us.com
Date: 12/13/2023

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### 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 294081

**QUESTIONS** (continued)

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4800
What was the total volume of replacement material (in cubic yards) for this site	1800
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable material
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/29/2023
Summarize any additional reclamation activities not included by answers (above)	Remediated area has been fully reclamated. Backfilled with native soil from nearby source, compacted, and graded to match existing topography and allow for natural drainage. Area was seeded using BLM#2 seed mix and suggested native surface cover grasses. Area was watered and inspected.
	eclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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.

Name: Bryan Haney
Title: Senior Project Manager
Email: bryan.haney@altamira-us.com
Date: 12/15/2023

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

QUESTIONS, Page 8

Action 294081

### **QUESTIONS** (continued)

Operator:	OGRID:
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300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation oblig	gations have been satisfied.
Requesting a restoration complete approval with this submission  Yes	
What was the total revegetation surface area (in square feet) for this site	4800
Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.	
On what date did the reseeding commence	10/29/2023
On what date was the vegetative cover inspected	12/15/2023
What was the life form ratio compared to pre-disturbance levels	50
What was the total percent plant cover compared to pre-disturbance levels	70
Summarize any additional revegetation activities not included by answers (above)	young grasses have been observed over the reclaimed area. The native grasses are expected to go dormant, however the cover crop should continue to take hold. The area was very sparse with vegetation prior to remediation (approximately 25 percent of the surface). Seed and grasses were spread over the entire 4800 square feet area, so overall coverage exceeds original percent coverage.

The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the revegetation activities. Refer to 19.15.29.13 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.

Name: Bryan Haney
Title: Senior Project Manager
Email: bryan.haney@altamira-us.com
Date: 12/15/2023

Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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CONDITIONS

Action 294081

### **CONDITIONS**

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	294081
	Action Type:
	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2328543797 CULEBRA BLUFF CTB3 PRODUCED WATER RELEASE, thank you. This Remediation Closure Report is approved. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	
rhamlet	Pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. A revegetation report will not be accepted until the release area, including areas reasonably needed for production or drilling activities, are complete. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil.	3/21/2024
rhamlet	Information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/21/2024