Oil Conservation Division

		I uge I vj	200
Incident ID	NRM2026231125		
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Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 12/2/2020 2:05:48 PM Form C-141 State of New Mexico			Page 2 of 25	
			Incident ID	NRM2026231125
Page 4	Oil Conservation Division		District RP	
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regulations all operators public health or the envi failed to adequately inve	il	fications and perform c OCD does not relieve the at to groundwater, surfa responsibility for comp	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe egualtory Manager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: Cris	tina Eads	Date: 12/	02/2020	

Received by OCD: 12/2/2020 2:05:48 PM Form C-141 State of New Mexico

Oil Conservation Division

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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Title: Printed Name: Signature: Date: Telephone: _____ email: _____ **OCD Only** Received by: Cristina Eads Date: 12/02/2020 Approved with Attached Conditions of Approval Approved Denied Deferral Approved 02/05/2021 Signature: Date:

Page 5



CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

Soil Assessment and Remediation Work Plan:

Zeus SWD Line Incident #NRM2026231125

Prepared For:

Tap Rock Resources, LLC. Golden, CO

Prepared By:

CDH Consulting Thornton, CO



Ms. Christina Eads NMCOD – Environmental Bureau 1220 S St Francis Dr # 3 Santa Fe, NM 87505

Subject: Soil Assessment and Remediation Workplan Zeus SWD Line Incident # NRM2026231125

Dear Ms. Eads,

Tap Rock Resources (Tap Rock) has contracted CDH Consulting (CDH) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities are described in the following pages.

SITE INFORMATION

The Zeus SWD line routes to the Zeus CTB located approximately 23 miles northwest of Jal, NM. The legal location description is Unit Letter B, Section 16, Township 24 South, Range 33 East, Lea County, New Mexico.

On September 3, 2020, a produced water release of approximately 20bbls was discovered on the Zeus SWD line. The cause of the release was determined to be equipment failure. The location of the release is shown on Figure 1. Upon discovery the line was shut in and the area secured. Earthen berms were constructed to contain the release and a hydrovac truck was utilized to remove all free-standing liquids. Approximately 5 bbls of produced water were recovered and placed back into the production facility.

On September 18, 2020, a form C-141 was submitted to the NMOCD detailing the initial response to the release. The initial C141 is included as Attachment 1. NMOCD has assigned incident #NRM2026231125 to this release.

GROUNDWATER AND SITE RANKING

There are no significant watercourses or other sensitive areas within ½ mile of the release as defined by 19.15.29.12.C.(4).

Tap Rock contracted a 3rd party water well driller to install a monitoring well to 55' below ground surface to determine depth to groundwater. Measured depth to groundwater is 53'2" below ground surface. This new information updates the previously reported depth on the Initial Form C-141. The drilling log is included as Attachment 2 and the location of the monitoring well is shown on Figure 1.



Based on these criteria, the remedial action levels for the soils in the release are; chlorides 10,000 mg/kg, TPH (GRO+DRO+MRO) 2,500 mg/kg, BTEX (Benzene, Toluene, Ethylbenzene, Total Xylenes) 50 mg/kg, Benzene 10 mg/kg, per 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 51'-100'.

SITE INVESTIGATION AND EXCAVATION

On September 23rd, 2020, approximately 900 cubic feet of impacted soil were excavated and transported to Northern Delaware Basin Landfill, a licensed disposal facility. The field excavation crew visually inspected the impacted area to determine the extent of the release. Environmental staff arrived on site to collect confirmation samples demonstrating that any impacted soil has been removed. Field analysis utilizing a photoionization detector (PID) indicated that the impacted soils were removed. Field PID analysis is included as Table 1. Photos of the site during sampling are included as Attachment 3.

22 samples were collected in the impacted area and two additional background samples (S-23 & S-24) were collected as shown on Figure 1 and analyzed for chlorides, total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube organics (MRO), benzene, toluene, ethylbenzene, total xylenes (BTEX). An alternate sampling plan proposing 5-point composite samples per 500 sqft of excavation was approved by NMOCD on September 23, 2020. The alternate sampling plan approval email is included as Attachment 4. Analytical results are summarized in Table 2 and laboratory data is included as Attachment 5. Sample results were compared to 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 51'-100'. Sample S-3 was in exceedance of the applicable chlorides standard. No other samples were above Table I standards.

Based on these results further excavation and sampling was conducted at the site. 13 potholes were dug approximately 30' from the lateral extent of the excavation in each direction (PH-1 through PH-13) and 11 additional potholes were dug within the excavation to determine any further chlorides impacts. Due to the previous results, these samples were analyzed only for chlorides per conversation with NMOCD staff. Sample locations are shown on Figure 1. These sample results were compared to 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 51'-100'. Samples PH-11, EPH-15, EPH-16, EPH-18 through EPH-22 were all above the applicable chlorides standard.

On November 18, 2020, three boreholes and one monitoring well were drilled, and additional samples were collected at 2' intervals to further delineate potential impacts. These borehole locations are designated WW1 for the water monitoring well, H, SH, and TH. They are illustrated on Figure 1. These samples were analyzed for chlorides and compared to Table I standards. Samples TH Topsoil, TH12, TH 20, H Top Soil, and WW 24 are all in exceedance of Table I standards.



CONCLUSIONS AND PROPOSED REMEDIAL ACTIONS

The chlorides exceedances combined with the absence of hydrocarbons and the relatively small volume of produced water released indicate that the Tap Rock spill likely occurred above and within a historical saltwater spill that has not been remediated. CDH has evaluated the option of excavating and hydro-vacuuming the material near the buried pipelines shown in the attached figure. However, upon discussion with the excavation contractors, CDH has been given strong warnings NOT to excavate near or beneath the buried pipelines running east and west along the south side of the current excavation and pipelines running north and south along the east side of the current excavation. Doing so would undermine several O&G related pipelines causing extreme risk of future failure of these lines. The excavation and associated pipeline infrastructure are shown on Figure 2. CDH respectfully requests that removal of soil under the pipelines be deferred until the pipelines are removed from service under NMAC 19.15.29.12 C. (2).

CDH estimates that approximately 3,415 cubic yards will need to be removed and properly disposed of in the final excavation. All samples will be reported on the final closure C-141. The location will be backfilled with clean soil and reclaimed with an appropriate seed mix during the next growing season.



CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

ATTACHMENT 1

1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 9 of 250

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party TapRock Operating LLC.	OGRID 37243
Contact Name Brad Morton	Contact Telephone (720) 460-3518
Contact email bmorton@taprk.com	Incident # (assigned by OCD) NRM2026231125
Contact mailing address 523 Park Point Dr #200	Golden, CO, 80401

Location of Release Source

Latitude 32.224601°_

Longitude -103.574705°_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Zeus SWD Line	Site Type Above Ground Transfer Line
Date Release Discovered 9/3/20	API# (if applicable)

Unit Letter	Section	Township	Range	County
В	16	248	33E	Lea

Surface Owner: State E Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Equipment failure of above ground produced water poly transfer line.

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

Initial Response

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

 \boxtimes The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _Brad Morton Signature:	Title: _Production Manager Date:
email: _bmorton@taprk.com	Telephone:(720) 460-3518
OCD Only	
Received by:	Date:



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ATTACHMENT 2

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WELL LOG AND CONSTRUCTION DIAGRAM

PROJECT NAME Zeus SWD Release **CLIENT** Tap Rock Resources, LLC. DRILLING DATE 11/18/20 TOTAL DEPTH 55' DIAMETER 6-1/8" CASING 4.5" SCREEN Slotted 35'-55' COORDINATES 32.22300, -103.57400 COORD SYS NAD 83 SURFACE ELEVATION 3616' WELL TOC 5' Stickup

Samples	Samples p as signature		Graphic Log	Material Description	Well Diagram
WW Top Soil	//\Y	Depth (ft)	ق /////	Moist Clay/Sand Mix	
WW02		ΥĘ			•
WW04	_\/Y	Υ <u>Ε</u>			
WW06	__/Y	15			
WW08	_\/ <u>γ</u>	1 E			
WW10	-\/Y			Caliche Layer	
WW12	\sqrt{r}	<u>\</u> 10 \	····		
		<u>↓</u> \ -			
/WW14	_\/Y	$\frac{1}{15}$			· · · · · · · · · · · · · · · · · · ·
WW16	_\/Y	<u>↓</u>			
WW18	_\/Y	ΥĘ			
WW20	_\/ <u>∽</u>	<u>1</u> 20	······································		
WW22	_\/ <u>γ</u>	ΥĒ			· . · , . ,
WW24	_\/ <u>γ</u>	ΛĒ	····		
WW26	\sqrt{r}	25			
WW28		<u>`</u>	······································		
		$\frac{1}{\sqrt{1-1}}$			• • • • • • •
WW30		<u>\</u> 30			
WW32	\/ <u>Y</u>	1		Moist Brown Sand	
WW34	_\/Y	ΥĘ	· · · ·		
WW36		1 35			
WW38	_\/Y	ΔĒ			
WW40	_\/ <u>γ</u>	40			
WW42	\sqrt{r}	140			
WW44	\sqrt{r}				
		<u>↓</u> 45			
WW46			· · · · · · · · · · · · · · · · · · ·		
WW48	_\/Y	1			
WW50	_\/Y	50			
WW52	_\/Y	VE			· . · . ,
WW54 WW55		ΣĒ	· · · · · · ·	¥	

Disclaimer This bore log is intended for environmental not geotechnical purposes.



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ATTACHMENT 3

. Released to Imaging: 2/5/2021 11:24:34 AM



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Excavation Facing North



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Excavation Facing South



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Excavation Facing East





Excavation Facing West



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ATTACHMENT 4

. Released to Imaging: 2/5/2021 11:24:34 AM



RE: Excavation and sample collection on release NRM2026231125
EEE Eads, Cristina, EMNRD <cristina.eads@state.nm.us> 9/23/2020 11:46 AM</cristina.eads@state.nm.us>
To: Ryan Bruner Cc: Chris Delhierro
Ryan,
Your alternate sampling plan is approved.
Thanks,
Cristina Eads 505-670-5601
From: Ryan Bruner - Cytotate@EditorsULCOMD Set: Usedes: Systemeter 23, 2020 10:30 AM To: E cady, Cristina, EMRIDE - Cristina, Edit@States.mm.us> Co: Cristo Belierro Schrie@Chitocosult.com Subject: [ST] Escavation and sample collection on release NRM2026231125 Good morning Christina, We are working with Tay Rock Operating on a produced water release (Incident# NRM2026231125) near Hobbs. We have begun excavation with the plan to dig and haul impacted soil to a licensed disposal facility. Environmental staff is on location and requests permission to collect on e Spoint composite sample very 500 square feet based on field analytical results using PID and chioride strips indicates all excavated areas are under NMOCD Table I standards and the size of the excavation. Field notes, including PID and chioride strip data, will be included in the final C14 report. Please let us know if this sampling plan is acceptable and we will proceed with the confirmation sampling. We will be happy to provide any additional information you require to make this determination. Thanks for you time, Ryan Bruner CDH Consulting. LLC 303.552.6783 Thurner ECORECONSULTION
📲 🔎 Search for anything O 🛱 💽 🛅 🔄 🖨 🧕 🧟 🧕 🜌 🗋 🖉 🚣 🔨



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ATTACHMENT 5

. Released to Imaging: 2/5/2021 11:24:34 AM



October 02, 2020

Thornton	СО	80229	
9446 Clermont St			
Chris Del Hierro			
CDH Consulting			

Project Name - Tap Rock Operating-Zeus SWD Project Number - [none] Line

Attached are your analytical results for Tap Rock Operating-Zeus SWD Line received by Origins Laboratory, Inc. September 25, 2020. This project is associated with Origins project number Y009346-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc. 303.433.1322 o-squad@oelabinc.com





1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



CDH Consulting

9446 Clermont St

Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

	CRO	SS REFEREI	NCE REPORT	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	Y009346-01	Soil	September 23, 2020 9:00	09/25/2020 09:49
S-2	Y009346-02	Soil	September 23, 2020 9:10	09/25/2020 09:49
S-3	Y009346-03	Soil	September 23, 2020 9:20	09/25/2020 09:49
S-4	Y009346-04	Soil	September 23, 2020 9:30	09/25/2020 09:49
S-5	Y009346-05	Soil	September 23, 2020 9:40	09/25/2020 09:49
S-6	Y009346-06	Soil	September 23, 2020 9:50	09/25/2020 09:49
S-7	Y009346-07	Soil	September 23, 2020 10:00	09/25/2020 09:49
S-8	Y009346-08	Soil	September 23, 2020 10:10	09/25/2020 09:49
S-9	Y009346-09	Soil	September 23, 2020 10:20	09/25/2020 09:49
S-10	Y009346-10	Soil	September 23, 2020 10:30	09/25/2020 09:49
S-11	Y009346-11	Soil	September 23, 2020 10:40	09/25/2020 09:49
S-12	Y009346-12	Soil	September 23, 2020 10:50	09/25/2020 09:49
S-13	Y009346-13	Soil	September 23, 2020 11:00	09/25/2020 09:49
S-14	Y009346-14	Soil	September 23, 2020 11:10	09/25/2020 09:49

Origins Laboratory, Inc.

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9446 Clermont St

Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

	CRO	SS REFERE	NCE REPORT	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-15	Y009346-15	Soil	September 23, 2020 11:20	09/25/2020 09:49
S-16	Y009346-16	Soil	September 23, 2020 11:30	09/25/2020 09:49
S-17	Y009346-17	Soil	September 23, 2020 11:40	09/25/2020 09:49
S-18	Y009346-18	Soil	September 23, 2020 11:50	09/25/2020 09:49
S-19	Y009346-19	Soil	September 23, 2020 12:00	09/25/2020 09:49
S-20	Y009346-20	Soil	September 23, 2020 12:10	09/25/2020 09:49
S-21	Y009346-21	Soil	September 23, 2020 12:20	09/25/2020 09:49
S-22	Y009346-22	Soil	September 23, 2020 12:30	09/25/2020 09:49
S-23	Y009346-23	Soil	September 23, 2020 12:40	09/25/2020 09:49
S-24	Y009346-24	Soil	September 23, 2020 12:50	09/25/2020 09:49

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neni

Jordan A. Merrill For Jen Pellegrini, Project Manager Released to Imaging: 2/5/2021 11:24:34 AM The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Origins Work Order: 1009346 Sample Re		15	H		
Origins Work Order: 10010 10		ent: <u>A</u>	TID: T	ap Rode	
Checklist Completed by: KDK		ipped Via		HD	
Date/time completed: 09.25-2020		UPS	, FedEx, H	and Delivered,	Pick-up,
Matrix(s) Received: (Check all that apply): X Soil/So		Water			
Cooler Number/Temperature:/ Ý-2. c	1	• • •			Describ
Thermometer ID:				U	
Requirement Description	Yes	No .	N/A	Comment	e /if an
If samples require cooling, was the temperature between 0°C to \leq 6°C ⁽¹⁾ ?	-	×vo		Gomment	s (n ar
Is there ice present (document if blue ice is used)	1				
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)					
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			-		
Were all samples received intact ⁽¹⁾ ?	1				
Was adequate sample volume provided ⁽¹⁾ ?	17		-		
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?					
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	-				
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			1	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	11				
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?					
bubble) present? If yes, contact client and note in narrative.					
Are samples preserved that require preservation and was It checked ¹¹ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity//Ref <2 for samples preserved with HNO3, 14, H2SO4) / (pH >10 for samples preserved with Net/SO2+NeOH, ZnAc+NBOH)		<u></u>	7		
Additional Comments (if any):				1	
⁽¹⁾ If NO, then contact the client before proceeding with analysis action to in the additional comm	s and note c	lateAime an	d person ce	ontacted as well	as the

Origins Laboratory, Inc.

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9446 Clermont St

Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		Ś	S-1						
		9/23/2020		MA00					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-01 (Sc	oil)					
Anions by EPA 300.0									
Chloride	2490	115	mg/kg dry	50	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	n	II	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %	7()-130		"		"	"	
Surrogate: Toluene-d8	94.7 %	70	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	۳	n	u	KDK	II	II	Ua
Surrogate: o-Terphenyl	79.4 %	50)-150		"		"	"	

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Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-2						
		9/23/202	0 9:10:0	0AM					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
			46-02 (Sc	•					
Anions by EPA 300.0									
Chloride	8010	445	mg/kg dry	200	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	u	KDK	II	n	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	84.2 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	H	KDK	II	II	Ua
Surrogate: o-Terphenyl	76.4 %	5	0-150		"		"	n	

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Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-3						
		9/23/202		0AM					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
		Y0093	46-03 (Sc	oil)					
Anions by EPA 300.0									
Chloride	11000	466	mg/kg dry	200	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	u	KDK	u	n	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	94.7 %	7	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	5D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	u	KDK	u	II	Ua
Surrogate: o-Terphenyl	62.4 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		ç	6-4						
		9/23/202		0AM					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	l6-04 (Sc	oil)					
Anions by EPA 300.0									
Chloride	7250	456	mg/kg dry	200	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	u	"	"	KDK	"	u	Ua
Surrogate: 1,2-Dichloroethane-d4	103 %	7()-130		"		"	"	
Surrogate: Toluene-d8	94.5 %)-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70)-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	I	"	"	KDK	"	u	Ua
Surrogate: o-Terphenyl	61.3 %	50)-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-5						
		9/23/202		0AM					
Analyte	Result	Reportino Limit	g Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
		Y0093	46-05 (Sc	oil)					
Anions by EPA 300.0									
Chloride	5160	206	mg/kg dry	100	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	u	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	102 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	114 %	7	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %	7	0-130		"		n	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	u	n	n	KDK	II	II	Ua
Surrogate: o-Terphenyl	80.8 %	5	0-150		"		"	"	

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80229

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		ę	S-6						
		9/23/202		0AM					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-06 (So	oil)					
Anions by EPA 300.0									
Chloride	6230	420	mg/kg dry	200	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	II	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	91.5 %	7(0-130		"		"	"	
Surrogate: Toluene-d8	100 %	70	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	u	"	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	63.4 %	50	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-7						
			0 10:00:0	MA00					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y0093	46-07 (Sc	oil)					
Anions by EPA 300.0									
Chloride	6060	414	mg/kg dry	200	2044967	CH5	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	II	II	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"		"	"	
Surrogate: Toluene-d8	94.2 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	н	Ua
Residual Range Organics (C28-C40)	ND	200	u	n	II	KDK	II	"	Ua
Surrogate: o-Terphenyl	78.6 %	5	0-150		"		"	n	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-8						
			0 10:10:(MA00					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y0093	46-08 (Sc	oil)					
Anions by EPA 300.0									
Chloride	442	23.2	mg/kg dry	10	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	n	"	"	KDK	"	n	Ua
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"		"	"	
Surrogate: Toluene-d8	88.9 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	n	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	63.8 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		ļ	S-9						
	9	9/23/2020		MA00					
Analyte	Result	Reporting Limit	l Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-09 (Sc	oil)					
Anions by EPA 300.0									
Chloride	5810	214	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	10/01/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	II	"	KDK	II	n	Ua
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			,,		"	"	
Surrogate: Toluene-d8	100 %	70-130			"		"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	II	n	Ua
Surrogate: o-Terphenyl	79.8 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		S	6-10						
) 10:30:0	MA00					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-10 (So	oil)					
Anions by EPA 300.0									
Chloride	6210	215	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	10/01/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	KDK	"	u	Ua
Surrogate: 1,2-Dichloroethane-d4	101 %	70	0-130		"		"	"	
Surrogate: Toluene-d8	102 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	II	"	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	70.0 %	50	0-150		"		"	"	

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Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-11						
Γ			<u>0 10:40:(</u>	MA00					
Analyte	Result	Reporting Limit	g Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
		Y0093	46-11 (Sc	oil)					
Anions by EPA 300.0									
Chloride	6570	424	mg/kg dry	200	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	u	H	u	KDK	"	H	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	93.9 %	7	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"		KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	u	W	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	70.8 %	Ę	60-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		S	6-12						
			<u>) 10:50:0</u>	MA00					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-12 (So	oil)					
Anions by EPA 300.0									
Chloride	2070	218	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	KDK	"	u	Ua
Surrogate: 1,2-Dichloroethane-d4	108 %	70	0-130		"		"	"	
Surrogate: Toluene-d8	94.4 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	II	"	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	77.9 %	50	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		ç	S-13						
			0 11:00:0	MA00					
Analyte	Result	Reportino Limit	g Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
		Y0093	46-13 (Sc	oil)					
Anions by EPA 300.0									
Chloride	174	4.75	mg/kg dry	2	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	II	n	n	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	105 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	95.3 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	n	II	II	KDK	n	II	Ua
Surrogate: o-Terphenyl	61.6 %	5	0-150		"		"	"	

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Thornton CO

Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		S	-14						
		9/23/2020		MA00					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-14 (Sc	oil)					
Anions by EPA 300.0									
Chloride	1250	48.0	mg/kg dry	20	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	II	"	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	106 %	7()-130		"		"	"	
Surrogate: Toluene-d8	94.3 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	u	KDK	II	II	Ua
Surrogate: o-Terphenyl	64.8 %	50)-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			6-15						
) 11:20:()0AM					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-15 (Sc	oil)					
Anions by EPA 300.0									
Chloride	4540	217	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	n	"	KDK	u	u	Ua
Surrogate: 1,2-Dichloroethane-d4	107 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	91.7 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	u	Ua
Residual Range Organics (C28-C40)	ND	200	"	n	"	KDK	"	u	Ua
Surrogate: o-Terphenyl	72.6 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			6-16						
			<u>) 11:30:(</u>	MA00					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-16 (Sc	oil)					
Anions by EPA 300.0									
Chloride	2880	206	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	KDK	"	u	Ua
Surrogate: 1,2-Dichloroethane-d4	96.0 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	100 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	87.2 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	n	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	86.4 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		ę	S-17						
			0 11:40:0	MA00					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y0093	46-17 (Sc	oil)					
Anions by EPA 300.0									
Chloride	4450	207	mg/kg dry	100	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	09/29/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002		"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	u	KDK	II	n	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	88.5 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	82.3 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 801	5D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	u	n	n	KDK	II	II	Ua
Surrogate: o-Terphenyl	86.3 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		S	6-18						
		9/23/2020)0AM					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-18 (So	oil)					
Anions by EPA 300.0									
Chloride	6940	437	mg/kg dry	200	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	10/01/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	u	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	n	II	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	101 %	7(0-130		"		"	"	
Surrogate: Toluene-d8	100 %	70	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	n	n	n	KDK	n	"	Ua
Surrogate: o-Terphenyl	81.6 %	50	0-150		"		n	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		Ś	S-19						
			0 12:00:0	00PM					
Analyte	Result	Reporting Limit	g Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	oratories	s, LLC					
		Y0093	46-19 (Sc	oil)					
Anions by EPA 300.0									
Chloride	6980	431	mg/kg dry	200	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	10/01/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	u	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	"	"	u	KDK	II	n	Ua
Surrogate: 1,2-Dichloroethane-d4	99.5 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	100 %		0-130		"		"	II	
Surrogate: 4-Bromofluorobenzene	102 %	7	0-130		"		n	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	u	n	n	KDK	II	"	Ua
Surrogate: o-Terphenyl	80.1 %	5	0-150		"		11	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		S	6-20						
			0 12:10:0	00PM					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-20 (So	oil)					
Anions by EPA 300.0									
Chloride	7390	438	mg/kg dry	200	2044967	CH5	09/26/2020	09/28/2020	
BTEX by EPA 8260D									
Benzene	ND	0.002	mg/kg	1	B0I2501	KDK	09/25/2020	10/01/2020	Ua
Toluene	ND	0.002	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.002	n	"	II	KDK	II	II	Ua
Surrogate: 1,2-Dichloroethane-d4	100 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	100 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	102 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2502	KDK	09/25/2020	09/28/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	n	"	II	KDK	II	"	Ua
Surrogate: o-Terphenyl	64.1 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			6-21						
Γ			0 12:20:	00PM					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE		oratories						
		Y0093	46-21 (So	DII)					
Anions by EPA 300.0									
Chloride	407	21.1	mg/kg dry	10	2044969	LXA2	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.050	mg/kg	25	B0I2406	KDK	09/24/2020	09/29/2020	Ua
Toluene	ND	0.050	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.050	u	u	II	KDK	u	II	Ua
Surrogate: 1,2-Dichloroethane-d4	91.0 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	96.0 %	-	0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	91.8 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2407	KDK	09/24/2020	09/26/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	n	KDK	I	u	Ua
Surrogate: o-Terphenyl	73.3 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

		5	6-22						
			0 12:30:0	00PM					
Analyte	Result	Reporting Limit) Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y0093	46-22 (So	oil)					
Anions by EPA 300.0									
Chloride	5050	217	mg/kg dry	100	2044969	LXA2	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.050	mg/kg	25	B0I2406	KDK	09/24/2020	09/30/2020	Ua
Toluene	ND	0.050	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.050	"	"	"	KDK	u	I	Ua
Surrogate: 1,2-Dichloroethane-d4	88.8 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	95.1 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2407	KDK	09/24/2020	09/26/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	n	"	KDK	u	II	Ua
Surrogate: o-Terphenyl	61.1 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			S-23						
			0 12:40:0	DOPM					
Analyte	Result	Reportine Limit	g Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE		oratories						
		Y0093	46-23 (Sc	oil)					
Anions by EPA 300.0									
Chloride	4.82	2.12	mg/kg dry	1	2044969	LXA2	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.050	mg/kg	25	B0I2406	KDK	09/24/2020	09/30/2020	Ua
Toluene	ND	0.050	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.050	II	n	u	KDK	"	II	Ua
Surrogate: 1,2-Dichloroethane-d4	93.8 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	95.3 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	7	70-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2407	KDK	09/24/2020	09/26/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	n	n	n	KDK	II	u	Ua
Surrogate: o-Terphenyl	71.5 %	5	60-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

			6-24						
			<u>) 12:50:</u>	00PM					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
	GE	L Labo	ratories	s, LLC					
		Y00934	46-24 (So	oil)					
Anions by EPA 300.0									
Chloride	4.76	2.02	mg/kg dry	1	2044969	LXA2	09/26/2020	09/27/2020	
BTEX by EPA 8260D									
Benzene	ND	0.050	mg/kg	25	B0I2406	KDK	09/24/2020	09/30/2020	Ua
Toluene	ND	0.050	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	0.050	"	II	"	KDK	u	II	Ua
Surrogate: 1,2-Dichloroethane-d4	92.1 %	7	0-130		"		"	"	
Surrogate: Toluene-d8	96.2 %		0-130		"		"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	7	0-130		"		"	"	
TPH-Carbon Chain by EPA 8015	D								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0I2407	KDK	09/24/2020	09/26/2020	Ua
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	Ua
Residual Range Organics (C28-C40)	ND	200	"	I	"	KDK	"	II	Ua
Surrogate: o-Terphenyl	68.4 %	5	0-150		"		"	"	

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2406 - EPA 5030 (soil)										
Blank (B0I2406-BLK1)					Prepared	: 09/24/2020	Analyzed: 09	/29/2020		
Benzene	ND	0.002	mg/kg							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2406 - EPA 5030 (soil)										
LCS (B0I2406-BS1)					Prepared	: 09/24/2020	Analyzed: 09	/29/2020		
Benzene	0.086	0.002	mg/kg	0.100		86.1	70-130			
Toluene	0.088	0.002	"	0.100		88.0	70-130			
Ethylbenzene	0.093	0.002	"	0.100		93.4	70-130			
m,p-Xylene	0.190	0.004	"	0.200		94.8	70-130			
o-Xylene	0.089	0.002	"	0.100		88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2406 - EPA 5030 (soil)										
Matrix Spike (B0I2406-MS1)		Source: Y0	09335-01		Preparec	I: 09/24/2020	Analyzed: 09/	/29/2020		
Benzene	0.080	0.002	mg/kg	0.100	ND	80.4	70-130			
Toluene	0.084	0.002	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.1	70-130			
m,p-Xylene	0.180	0.004	"	0.200	ND	90.1	70-130			
o-Xylene	0.088	0.002	"	0.100	ND	87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.6	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2406 - EPA 5030 (soil)										
Matrix Spike Dup (B0I2406-MSD1)		Source: Y00	09335-01		Prepared	l: 09/24/2020	Analyzed: 09	/29/2020		
Benzene	0.080	0.002	mg/kg	0.100	ND	79.8	70-130	0.774	20	
Toluene	0.083	0.002	"	0.100	ND	82.5	70-130	1.94	20	
Ethylbenzene	0.088	0.002	"	0.100	ND	87.8	70-130	2.59	20	
m,p-Xylene	0.177	0.004	"	0.200	ND	88.6	70-130	1.74	20	
o-Xylene	0.087	0.002	"	0.100	ND	87.3	70-130	0.457	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2407 - EPA 3580										
Blank (B0I2407-BLK1)					Prepared	: 09/24/2020	Analyzed: 09	/26/2020		
Gasoline (C6-C10)	ND	50.0	mg/kg							Ua
Diesel (C10-C28)	ND	50.0	"							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	35.5		"	50.0		71.1	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2407 - EPA 3580										
LCS (B0I2407-BS1)					Prepared	: 09/24/2020	Analyzed: 09	/26/2020		
Gasoline (C6-C10)	845	50.0	mg/kg	1000		84.5	70-130			
Diesel (C10-C28)	1030	50.0	"	1000		103	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2407 - EPA 3580										
Matrix Spike (B0I2407-MS1)		Source: Y00	9335-01		Prepared	1: 09/24/2020	Analyzed: 09	/26/2020		
Gasoline (C6-C10)	821	50.0	mg/kg	1000	ND	82.1	70-130			
Diesel (C10-C28)	1010	50.0	"	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	42.9		"	50.0		85.8	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0l2407 - EPA 3580										
Matrix Spike Dup (B0I2407-MSD1)		Source: Y00	9335-01		Prepared	1: 09/24/2020	Analyzed: 09	/26/2020		
Gasoline (C6-C10)	803	50.0	mg/kg	1000	ND	80.3	70-130	2.28	35	
Diesel (C10-C28)	1020	50.0	"	1000	ND	102	70-130	0.508	35	
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130	4.05	35	
Surrogate: o-Terphenyl	46.3		"	50.0		92.5	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2501 - EPA 5030 (soil)										
Blank (B0I2501-BLK1)					Prepared	: 09/25/2020	Analyzed: 09	/30/2020		
Benzene	ND	0.002	mg/kg							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2501 - EPA 5030 (soil)										
LCS (B0I2501-BS1)					Prepared	: 09/25/2020	Analyzed: 09	/29/2020		
Benzene	0.092	0.002	mg/kg	0.100		92.1	70-130			
Toluene	0.092	0.002	"	0.100		91.5	70-130			
Ethylbenzene	0.098	0.002	"	0.100		98.3	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.106	0.002	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.097		"	0.125		77.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		84.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2501 - EPA 5030 (soil)										
Matrix Spike (B0I2501-MS1)		Source: Y00	09346-01		Prepared	d: 09/25/2020	Analyzed: 09/	/29/2020		
Benzene	0.048	0.002	mg/kg	0.0500	ND	95.3	70-130			
Toluene	0.046	0.002	"	0.0500	ND	91.7	70-130			
Ethylbenzene	0.044	0.002	"	0.0500	ND	87.5	70-130			
m,p-Xylene	0.093	0.004	"	0.100	ND	92.7	70-130			
o-Xylene	0.045	0.002	"	0.0500	ND	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2501 - EPA 5030 (soil)										
Matrix Spike Dup (B0I2501-MSD1)		Source: Y00	9346-01		Prepared	I: 09/25/2020	Analyzed: 09	/29/2020		
Benzene	0.046	0.002	mg/kg	0.0500	ND	91.2	70-130	4.37	20	
Toluene	0.041	0.002	"	0.0500	ND	82.8	70-130	10.2	20	
Ethylbenzene	0.044	0.002	"	0.0500	ND	88.4	70-130	1.09	20	
m,p-Xylene	0.090	0.004	"	0.100	ND	90.4	70-130	2.60	20	
o-Xylene	0.043	0.002	"	0.0500	ND	85.8	70-130	4.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		84.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2502 - EPA 3580										
Blank (B0I2502-BLK1)					Prepared	: 09/25/2020	Analyzed: 09	/28/2020		
Gasoline (C6-C10)	ND	50.0	mg/kg							Ua
Diesel (C10-C28)	ND	50.0	"							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	38.2		"	50.0		76.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2502 - EPA 3580										
LCS (B0I2502-BS1)					Prepared	: 09/25/2020	Analyzed: 09	/28/2020		
Gasoline (C6-C10)	755	50.0	mg/kg	1000		75.5	70-130			
Diesel (C10-C28)	947	50.0	"	1000		94.7	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000		96.9	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2502 - EPA 3580										
Matrix Spike (B0I2502-MS1)		Source: Y00	9346-01		Prepared	epared: 09/25/2020 Analyzed: 0		/28/2020		
Gasoline (C6-C10)	877	50.0	mg/kg	1000	ND	87.7	70-130			
Diesel (C10-C28)	1090	50.0	"	1000	16.1	108	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	18.5	102	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0I2502 - EPA 3580										
Matrix Spike Dup (B0I2502-MSD1)		Source: Y00	9346-01		Prepared	I: 09/25/2020	09/25/2020 Analyzed: 09/28/2020			
Gasoline (C6-C10)	728	50.0	mg/kg	1000	ND	72.8	70-130	18.5	35	
Diesel (C10-C28)	940	50.0	"	1000	16.1	92.4	70-130	14.9	35	
Residual Range Organics (C28-C40)	904	200	"	1000	18.5	88.5	70-130	13.5	35	
Surrogate: o-Terphenyl	39.0		"	50.0		77.9	50-150			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Α	nions by EP		•						
		GEL L	.aborator	ies, LLC	,					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch 2044967 - EPA 300.0 PREP										
BLANK (1204653220-BLK)					Prepared	: 09/26/2020	Analyzed: 09/	26/2020		
Chloride	2.36	1.99	mg/kg				-			
LCS (1204653221-BKS)					Prepared	: 09/26/2020	Analyzed: 09/	26/2020		
Chloride	49.8	1.99	mg/kg	49.6		100	90-110			
DUP (1204653222 D)		Source: Y00	9346-01		Prepared	: 09/26/2020	Analyzed: 09/	27/2020		
Chloride	698	111	mg/kg dry		2490		0-90	112	90	
DUP (1204653223 D)		Source: Y00	9346-02		Prepared	: 09/26/2020	Analyzed: 09/	27/2020		
Chloride	8310	456	mg/kg dry		8010		0-90	3.76	90	
MS (1204653224 S)		Source: Y00	9346-01		Prepared	: 09/26/2020	Analyzed: 09/	27/2020		
Chloride	922	114	mg/kg dry	56.8	2490	0	90-110			
MS (1204653225 S)		Source: Y00	9346-02		Prepared	: 09/26/2020	Analyzed: 09/	27/2020		
Chloride	7550	452	mg/kg dry	56.6	8010	0	90-110			
Batch 2044969 - EPA 300.0 PREP										
BLANK (1204653226-BLK)					Prepared	: 09/26/2020	Analyzed: 09/	30/2020		
Chloride	ND	2.00	mg/kg				-			U
LCS (1204653227-BKS)					Prepared	: 09/26/2020	Analyzed: 09/	26/2020		
Chloride Origins Laboratory, Inc.	48.6	1.98	mg/kg	49.4		98.5	90-110			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Anions by EPA 300.0 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2044969 - EPA 300.0 PREP										
DUP (1204653228 D)		Source: Y0	09346-21		Prepared	: 09/26/2020) Analyzed: 09	/27/2020		
Chloride	417	20.2	mg/kg dry		407		0-90	2.29	90	
DUP (1204653229 D)		Source: Y0	09346-22		Prepared	: 09/26/2020	Analyzed: 09	/27/2020		
Chloride	4920	220	mg/kg dry		5050		0-90	2.6	90	
MS (1204653230 S)		Source: Y0	09346-21		Prepared	: 09/26/2020) Analyzed: 09	/27/2020		
Chloride	509	21.1	mg/kg dry	52.8	407	0	90-110			
MS (1204653231 S)		Source: Y0	09346-22		Prepared	: 09/26/2020	Analyzed: 09	/27/2020		
Chloride	5340	217	mg/kg dry	54.3	5050	0	90-110			

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Chris Del Hierro Project Number: [none] Project: Tap Rock Operating-Zeus SWD Line

Notes and Definitions

Ua Sample is Non-Detect.

- U Result not detected above the detection limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Certificate of Analysis Summary 676131

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CDH Consulting, Thornton, CO

Project Name: Zeus SW

Project Id:									Date R	eceived	in Lab: Mor	n 10.26.2	020 16:30	
Contact:	Chris Del Hierro									Repor	rt Date: 10.2	7.2020 1	5:23	
Project Location:									Pr	oject M	anager: Iren	e Vann		
		Lab Id:	676131-0	01	676131-00)2	676131-00)3	676131-0)4	676131-0	05	676131-00)6
Analysis R	onvostod	Field Id: PH-001 PH-002 PH-003 PH-004 PH-005										PH-006		
2111019515 10	cquesieu	Depth: 68- In 58- In					65- In		62- In		50- In		60- In	
		Matrix: SOIL SOIL SOIL SOIL SOIL									SOIL			
		Sampled:	10.26.2020 (09:03	10.26.2020 0	9:16	10.26.2020 0	9:30	10.26.2020 ()9:42	10.26.2020	09:56	10.26.2020 1	10:08
Chloride	by EPA 300	Extracted:	10.26.2020	17:13	10.26.2020 1	7:13	10.26.2020 1	7:13	10.26.2020	7:13	10.26.2020	17:13	10.26.2020 1	17:13
		Analyzed:	10.26.2020	18:14	10.26.2020 1	8:31	10.26.2020 1	8:37	10.26.2020	8:42	10.26.2020	18:48	10.26.2020 1	19:05
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			<10.1	10.1	12.6	9.94	<10.0	10.0	<9.98	9.98	20.4	10.1	10.1	10.1

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 676131

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CDH Consulting, Thornton, CO

Project Name: Zeus SW

Project Id:								Date R	eceived	in Lab: Mor	n 10.26.2	020 16:30			
Contact: Chris I	Del Hierro								Repor	rt Date: 10.2	7.2020 1	5:23			
Project Location:								Pr	oject M	anager: Iren	e Vann				
	Lab Id:														
Analysis Request	Field Id:	Field Id: PH-007 PH-008 PH-009 PH-010 EPH-011 E										EPH-012			
Analysis Request	Depth:	65- In		60- In		79- In		76- In		78- In		128- In			
	Matrix:	Matrix: SOIL SOIL SOIL SOIL SOIL									SOIL				
	Sampled:	10.26.2020	10:22	10.26.2020 1	0:37	10.26.2020 1	10.26.2020 10:55 10.26.2020 11:14				11:38	10.26.2020 1	11:45		
Chloride by EP	A 300 Extracted:	10.26.2020	17:13	10.26.2020 1	7:13	10.26.2020 1	7:13	10.26.2020 1	17:13	10.26.2020	17:13	10.26.2020 1	17:13		
	Analyzed:	10.26.2020	19:10	10.26.2020 1	9:16	10.26.2020 1	9:21	10.26.2020 1	19:27	10.26.2020	19:33	10.26.2020 1	19:49		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		45.0	10.1	12.4	9.92	<9.98	9.98	<10.1	10.1	10400	199	9540	202		

BRL - Below Reporting Limit

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Certificate of Analysis Summary 676131

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CDH Consulting, Thornton, CO

Project Name: Zeus SW

Project Id:								Date R	eceived	in Lab: Mor	n 10.26.2	020 16:30	
Contact: Ch	ris Del Hierro								Repor	rt Date: 10.2	7.2020 1	5:23	
Project Location:		Project Manager: Irene Vann											
	Lab Id:	676131-0	13	676131-01	4	676131-01	5	676131-0	16	676131-0	17	676131-01	18
Analysis Requ	Field Id	EPH-01	3	EPH-014		EPH-015		EPH-016		EPH-017		EPH-018	
Depth		78- In	78- In		128- In			79- In		68- In		76- In	
	Matrix	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled	10.26.2020	11:50	10.26.2020 1	2:03	10.26.2020 1	2:09	10.26.2020	12:27	10.26.2020	12:48	10.26.2020 1	2:49
Chloride by	EPA 300 Extracted	10.26.2020	17:13	10.26.2020 1	7:13	10.26.2020 1	7:13	10.26.2020	17:13	10.26.2020	17:13	10.26.2020 1	7:13
	Analyzed	Analyzed: 10.26.2020 19:55 10.		10.26.2020 2	0:00	10.26.2020 20:17		10.26.2020 20:23		10.26.2020	20:28	10.26.2020 2	20:34
	Units/RL	: mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7600	202	8000	202	11700	198	11100	198	9220	199	11000	198

BRL - Below Reporting Limit

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Certificate of Analysis Summary 676131

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CDH Consulting, Thornton, CO

Project Name: Zeus SW

Project Id:									Date R	eceived	in Lab: Mor	n 10.26.2	020 16:30	
Contact:	Chris Del Hierro									Repor	rt Date: 10.2	27.2020 1	5:23	
Project Location:		Project Manager: Irene Vann												
		Lab Id:	676131-0	19	676131-02	20	676131-02	21	676131-02	22	676131-0	23	676131-02	24
Analysis R	oguested	Field Id:	EPH-019)	EPH-020)	EPH-021		EPH-022		EPH-023		EPH-024	
Analysis Requested Dept			62- In	62- In			68- In		88- In		73- In		78- In	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	10.26.2020	12:57	10.26.2020 1	3:00	10.26.2020 1	3:07	10.26.2020	13:13	10.26.2020	13:21	10.26.2020 1	3:22
Chloride	by EPA 300	Extracted:	10.26.2020	17:13	10.26.2020 1	7:13	10.26.2020 1	7:10	10.26.2020	17:10	10.26.2020	17:10	10.26.2020 1	7:10
		Analyzed: 10.26.2020 20:39 10.26.2020 20:45 10				10.26.2020 2	1:52	2 10.26.2020 22:09		10.26.2020 22:14		10.26.2020 2	22:20	
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			11200	200	11100	199	11100	200	11300	200	9320	200	8390	200

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

prenenvann

.

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eurofins Environment Testing Xenco

Analytical Report 676131

for

CDH Consulting

Project Manager: Chris Del Hierro

Zeus SW

10.27.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

10.27.2020 Project Manager: **Chris Del Hierro CDH Consulting** 9426 Clermont St. Thornton, CO 80229

Reference: Eurofins Xenco, LLC Report No(s): 676131 Zeus SW Project Address:

Chris Del Hierro:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676131. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676131 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

rener Van

Irene Vann Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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eurofins Environment Testing Xenco

Sample Cross Reference 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH-001	S	10.26.2020 09:03	68 In	676131-001
PH-002	S	10.26.2020 09:16	58 In	676131-002
PH-003	S	10.26.2020 09:30	65 In	676131-003
PH-004	S	10.26.2020 09:42	62 In	676131-004
PH-005	S	10.26.2020 09:56	50 In	676131-005
PH-006	S	10.26.2020 10:08	60 In	676131-006
PH-007	S	10.26.2020 10:22	65 In	676131-007
PH-008	S	10.26.2020 10:37	60 In	676131-008
PH-009	S	10.26.2020 10:55	79 In	676131-009
PH-010	S	10.26.2020 11:14	76 In	676131-010
EPH-011	S	10.26.2020 11:38	78 In	676131-011
EPH-012	S	10.26.2020 11:45	128 In	676131-012
EPH-013	S	10.26.2020 11:50	78 In	676131-013
EPH-014	S	10.26.2020 12:03	128 In	676131-014
EPH-015	S	10.26.2020 12:09	63 In	676131-015
EPH-016	S	10.26.2020 12:27	79 In	676131-016
EPH-017	S	10.26.2020 12:48	68 In	676131-017
EPH-018	S	10.26.2020 12:49	76 In	676131-018
EPH-019	S	10.26.2020 12:57	62 In	676131-019
EPH-020	S	10.26.2020 13:00	84 In	676131-020
EPH-021	S	10.26.2020 13:07	68 In	676131-021
EPH-022	S	10.26.2020 13:13	88 In	676131-022
EPH-023	S	10.26.2020 13:21	73 In	676131-023
EPH-024	S	10.26.2020 13:22	78 In	676131-024

Environment Testing Xenco

CASE NARRATIVE

Client Name: CDH Consulting Project Name: Zeus SW

Project ID: Work Order Number(s): 676131 Report Date: 10.27.2020 Date Received: 10.26.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-001 Lab Sample Id: 676131-001		Matrix: Date Collecte	Soil d: 10.26.2020 09:03		Date Received:10.26.2020 16:30 Sample Depth: 68 In				
Analytical Method: Chloride by EPA	300				Prep Method: E3	300P			
Tech: MAB Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: W	et Weight			
Seq Number: 3140633						et weight			
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil		

Chloride

16887-00-6 <10.1

10.1

mg/kg

/kg 10.26.2020 18:14

U

1

Certificate of Analytical Results 676131

1

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-002 Lab Sample Id: 676131-002		Matrix: Date Collecte	Matrix: Soil Date Collected: 10.26.2020 09:16			Date Received:10.26.2020 16:30 Sample Depth: 58 In			
Analytical Method: Chloride by EPA	300				Prep Method:	E300P			
Tech: MAB									
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet We	aight		
Seq Number: 3140633					Dasis.		eigin		
Parameter	Cas Number	Result R	L	Units	Analysis D	ate I	Flag	Dil	

12.6

16887-00-6

9.94

mg/kg

10.26.2020 18:31

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-003 Lab Sample Id: 676131-003	•				Date Received:10.26.2020 16:30 Sample Depth: 65 In				
Analytical Method: Chloride by EPA	A 300				Prep Method: E300F	D			
Tech: MAB					0/ 3/				
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wet V	Veight			
Seq Number: 3140633						vergitt			
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil		

Chloride

16887-00-6 <10.0

10.0

mg/kg

10.26.2020 18:37

U

1

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-004 Lab Sample Id: 676131-004	i -	Matrix: Date Collecte	Soil d: 10.26.2020 09:42		Date Received:10.26.2020 16:30 Sample Depth: 62 In			
Analytical Method: Chlorid	de by EPA 300				Prep Method: E3	00P		
Tech: MAB					0/ 3.5.1			
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: We	t Weight		
Seq Number: 3140633						t weight		
Parameter	Cas Number	Result RI	_	Units	Analysis Date	Flag	Dil	

Chloride

16887-00-6 <9.98

9.98

mg/kg

10.26.2020 18:42

U

1

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. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-005 Lab Sample Id: 676131-005	Matrix: Date Collecte	Soil ed: 10.26.2020 09:56	Date Received:10.26.2020 16:30 Sample Depth: 50 In				
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weig	rht
Seq Number: 3140633					Da515.	wet weig	giit
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Fla	ıg Dil

16887-00-6 **20.4**

10.1

mg/kg 10.26.2020 18:48

1

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-006 Lab Sample Id: 676131-006	Matrix: Date Collect	Matrix: Soil Date Collected: 10.26.2020 10:08			Date Received:10.26.2020 16:30 Sample Depth: 60 In			
Analytical Method: Chloride by EPA	300				Prep Method:	E300P		
Tech: MAB								
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weight		
Seq Number: 3140633					Dasis.	wet weight		
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil	

10.1

16887-00-6

10.1

mg/kg 10.26.2020 19:05

1

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-007 Lab Sample Id: 676131-007		Matrix: Date Collect	Soil ed: 10.26.2020 10:22	Date Received:10.26.2020 16:30 Sample Depth: 65 In			
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Wei	aht
Seq Number: 3140633					Da515.	wei wei	giit
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Fla	ag Dil

16887-00-6 **45.0**

10.1

mg/kg 10.26.2020 19:10

- ----8

1

Chloride

Certificate of Analytical Results 676131

1

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-008 Lab Sample Id: 676131-008	Matrix: Date Collect	atrix: Soil ate Collected: 10.26.2020 10:37			Date Received:10.26.2020 16:30 Sample Depth: 60 In			
Analytical Method: Chloride by EPA	300				Prep Method:	E300P		
Tech: MAB								
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weigh		
Seq Number: 3140633					Dasis.	wet weigh	il.	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil	

9.92

12.4

16887-00-6

10.26.2020 19:16

mg/kg

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-009 Lab Sample Id: 676131-009	*				Date Received:10.26.2020 16:30 Sample Depth: 79 In				
Analytical Method: Chloride by EPA	A 300				Prep Method:	E300P			
Tech: MAB					0/ 14 .				
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weight			
Seq Number: 3140633					Dusis.	wet weight			
Parameter	Cas Number	Result RI		Units	Analysis Dat	e Flag	Dil		

Chloride

16887-00-6 <9.98

9.98

mg/kg

10.26.2020 19:21

U

1

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: PH-010 Lab Sample Id: 676131-010		Matrix: Date Collecte	Soil d: 10.26.2020 11:14		Date Received:10.26.2020 16:30 Sample Depth: 76 In
Analytical Method: Chloride by EPA	300				Prep Method: E300P
Tech: MAB Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wet Weight
Seq Number: 3140633					Basis: Wet Weight
Parameter	Cas Number	Result RI		Units	Analysis Date Flag Dil

Chloride

16887-00-6 <10.1

10.1

mg/kg

10.26.2020 19:27

U

1

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-011 Lab Sample Id: 676131-011		Matrix: Date Collecte	Soil d: 10.26.2020 11:38		Date Received:10.26.2020 16:30 Sample Depth: 78 In
Analytical Method: Chloride by EPA	300				Prep Method: E300P
Tech: MAB					
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wet Weight
Seq Number: 3140633					Dasis. Wet weight
Parameter	Cas Number	Result R	2	Units	Analysis Date Flag Dil

16887-00-6 **10400**

199

)

mg/kg 10.26.2020 19:33

20

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-012 Lab Sample Id: 676131-012		Matrix: Date Collecte	Soil d: 10.26.2020 11:45		Date Received:10 Sample Depth: 12		30
Analytical Method: Chloride by EPA	300				Prep Method: E3	00P	
Tech: MAB					0/ 3 5 1 .		
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wa	et Weight	
Seq Number: 3140633					Dasis. W	et weight	
Parameter	Cas Number	Result RI	_	Units	Analysis Date	Flag	Dil

Chloride

16887-00-6 **9540**

202

mg/kg 10.26

10.26.2020 19:49

20

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-013 Lab Sample Id: 676131-013		Matrix: Date Collecte	Soil d: 10.26.2020 11:50		Date Received:10.2 Sample Depth: 78 In		30
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: MAB					0/ 1/ : /		
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wet	Weight	
Seq Number: 3140633						weight	
Parameter	Cas Number	Result R	<u>.</u>	Units	Analysis Date	Flag	Dil

7600

Chloride

16887-00-6

202

mg/kg 10.26.2020 19:55

20

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-014 Lab Sample Id: 676131-014		Matrix: Date Collecte	Soil d: 10.26.2020 12:03		Date Received:10 Sample Depth: 12		30
Analytical Method: Chloride by EPA	300				Prep Method: E3	00P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wa	et Weight	
Seq Number: 3140633					Dasis. W	et weight	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil

8000

16887-00-6

202

mg/kg

10.26.2020 20:00

20

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

20

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-015 Lab Sample Id: 676131-015		Matrix: Date Collecte	Soil d: 10.26.2020 12:09		Date Received:10.26.2020 16:30 Sample Depth: 63 In
Analytical Method: Chloride by EPA	300				Prep Method: E300P
Tech: MAB					
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: Wet Weight
Seq Number: 3140633					Dasis. Wet weight
Parameter	Cas Number	Result RI		Units	Analysis Date Flag Dil

Chloride

16887-00-6 **11700**

198

mg/kg 10.2

10.26.2020 20:17

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-016 Lab Sample Id: 676131-016		Matrix: Date Collecte	Soil d: 10.26.2020 12:27		Date Received Sample Depth:	:10.26.2020 16: 79 In	:30
Analytical Method: Chloride by E	PA 300				Prep Method:	E300P	
Tech: MAB					0/ 35 * 1		
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weight	
Seq Number: 3140633					Dasis.	wet weight	
Parameter	Cas Number	Result R	_	Units	Analysis Da	te Flag	Dil

Chloride

16887-00-6 **11100**

198

mg/kg 10

10.26.2020 20:23

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-017 Lab Sample Id: 676131-017		Matrix: Date Collecte	Soil d: 10.26.2020 12:48		Date Received:10 Sample Depth: 68		30
Analytical Method: Chloride by EPA	300				Prep Method: E3	800P	
Tech: MAB					0/ 3 5 1 .		
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis: W	et Weight	
Seq Number: 3140633					Dasis. W	et weight	
Parameter	Cas Number	Result RI	_	Units	Analysis Date	Flag	Dil

16887-00-6 9220

199

 Omits
 Analysis Date

 mg/kg
 10.26.2020 20:28

20

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-018 Lab Sample Id: 676131-018		Matrix: Date Collecte	Soil ed: 10.26.2020 12:49		Date Received Sample Depth	d:10.26.2020 16 n: 76 In	:30
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weight	
Seq Number: 3140633					Dasis.	wet weight	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6

11000 198

mg/kg 1

10.26.2020 20:34

20

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-019 Lab Sample Id: 676131-019		Matrix: Date Collecte	Soil ed: 10.26.2020 12:57		Date Received Sample Depth		.2020 16::	30
Analytical Method: Chloride by EPA	A 300				Prep Method:	E300F	D	
Tech: MAB								
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	W/-+ W	V - : - 1- 4	
Seq Number: 3140633					Dasis:	wet v	Veight	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate	Flag	Dil

16887-00-6 **11200**

200

mg/kg

10.26.2020 20:39

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-020 Lab Sample Id: 676131-020		Matrix: Date Collecte	Soil ed: 10.26.2020 13:00		Date Received Sample Depth	l:10.26.2020 16: : 84 In	:30
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:13		% Moisture: Basis:	Wet Weight	
Seq Number: 3140633					Dasis.	wet weight	
Parameter	Cas Number	Result R	L	Units	Analysis Da	ate Flag	Dil

Chloride

16887-00-6 **11100**

199

 Units
 Analysis Date

 mg/kg
 10.26.2020 20:45

1 145

20

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-021 Lab Sample Id: 676131-021		Matrix: Date Collecte	Soil d: 10.26.2020 13:07		Date Received:10.26.2020 16:30 Sample Depth: 68 In
Analytical Method: Chloride by EPA	300				Prep Method: E300P
Tech: MAB					% Moisture:
Analyst: MAB		Date Prep:	10.26.2020 17:10		Basis: Wet Weight
Seq Number: 3140632					
Parameter	Cas Number	Result RI	2	Units	Analysis Date Flag Dil

Chloride

16887-00-6 **11100**

200

mg/kg

10.26.2020 21:52

20

. Released to Imaging: 2/5/2021 11:24:34 AM

Certificate of Analytical Results 676131

CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-022 Lab Sample Id: 676131-022		Matrix: Date Collecte	Soil ed: 10.26.2020 13:13		Date Received Sample Depth:	:10.26.2020 16 : 88 In	:30
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB					0/ 14 1		
Analyst: MAB	Date Collected: 10.26.2020 13:13 Samp y EPA 300 Prep Date Prep: 10.26.2020 17:10 % M Basis	% Moisture:	Wet Weight				
Seq Number: 3140632					Dasis.	wet weight	
Parameter	Cas Number	Result R	L	Units	Analysis Da	ite Flag	Dil

Chloride

16887-00-6 **11300**

200

mg/kg 10.26.2020 22:09

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20

Certificate of Analytical Results 676131

20

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-023 Lab Sample Id: 676131-023		Matrix: Date Collecte	Soil d: 10.26.2020 13:21		Date Received:10.26.20 Sample Depth: 73 In	020 16:30
Analytical Method: Chloride by EPA	300				Prep Method: E300P	
Tech: MAB						
Analyst: MAB		Date Prep:	10.26.2020 17:10		% Moisture: Basis: Wet We	ight
Seq Number: 3140632					Dasis. Wet we	igitt
Parameter	Cas Number	Result RI		Units	Analysis Date F	lag Dil

16887-00-6 **9320**

200

 Units
 Analysis Date

 mg/kg
 10.26.2020 22:14

Certificate of Analytical Results 676131

20

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CDH Consulting, Thornton, CO

Zeus SW

Sample Id: EPH-024 Lab Sample Id: 676131-024		Matrix: Date Collecte	Soil d: 10.26.2020 13:22		Date Received Sample Depth		16:30
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	10.26.2020 17:10		% Moisture: Basis:	Wet Weight	
Seq Number: 3140632					Dasis.	wet weight	
Parameter	Cas Number	Result RI		Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **8390**

200

mg/kg 10.26.2020 22:20

Xenco

Environment Testing

🔅 eurofins

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Xenco

Environment Testing

🔅 eurofins

QC Summary 676131

CDH Consulting

Zeus SW

Analytical Method: Seq Number: MB Sample Id:	Chloride by F 3140632 7713961-1-BL		0		Matrix: nple Id:	Solid 7713961-	I-BKS			ep Metho Date Pr D Sample	ep: 10.2	0P 6.2020 3961-1-BSD	
Parameter	F	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	256	102	250	100	90-110	2	20	mg/kg	10.26.2020 21:07	
Analytical Method:	Chloride by H	EPA 30	0						Pr	ep Metho	od: E30	0P	
Seq Number:	3140633				Matrix:		DVC		LOQ	Date Pr		6.2020	
MB Sample Id:	7713962-1-BL				-	7713962-				-		3962-1-BSD	
Parameter	F	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	252	101	246	98	90-110	2	20	mg/kg	10.26.2020 18:03	
Analytical Method: Seq Number:	Chloride by E 3140632 675984-010	EPA 30	0		Matrix:	Soil 675984-0	10.5			ep Metho Date Pr	ep: 10.2	0P 6.2020 984-010 SD	
Parent Sample Id:		lamant	Seilles	MS Sal	•			T ::4a		RPD	Units		
Parameter		'arent Result	Spike Amount	Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	Limit	Units	Analysis Date	Flag
Chloride		189	200	392	102	387	99	90-110	1	20	mg/kg	10.26.2020 21:24	
Analytical Method: Seq Number:	Chloride by E 3140633	EPA 30	0		Matrix:	Soil			Pr	0P 6.2020			
Parent Sample Id:	676131-001			MS Sa	nple Id:	676131-0	01 S		MS	D Sample	e Id: 676	131-001 SD	
Parameter		'arent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<9.98	200	190	95	191	96	90-110	1	20	mg/kg	10.26.2020 18:20	
Analytical Method:		EPA 30	0		Matrix	Seil			Pr	ep Metho			
Seq Number: Parent Sample Id:	3140633 676131-011				Matrix: mple Id:	5011 676131-0	11 S		MS	Date Pr D Sample	1	6.2020 131-011 SD	
Parameter	Р	'arent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1	10400	202	10600	99	10600	99	90-110	0	20	mg/kg	10.26.2020 19:38	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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	6					
	4 12		16:30			
Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time		gnat	Le hacin (2) 2 /	anote a L He have be
nditions 9 control 9d.	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	npany to Xenco, its affiliates a r expenses incurred by the cli to Xenco, but not analyzed. Th	e order from client co sibility for any losses o ach sample submitted	d shall not assume any respons project and a charge of \$5 for e	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such beses are of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be entited to the client if such beses are the sample submitted to Xenco, but not analyzed. These terms will be entitled to the client if such beses the entitled to Xenco and the sample submitted to Xenco.	of service. Xenco will of Xenco. A minimum
Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	11 Al Sb As Ba Be B Sb As Ba Be Cd Cr	13PPM Texas 11 LP 6010: 8RCRA	8RCRA 13PPM Zed TCLP / SPLP 6010:	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
			46"		IP	Total 200 7
		-	-	-	Don	-Hd
				10126 10:37	8008	PH-
		 \ \		10126 10:22	1:02 + 00	PH-
		-	-	-		DH
		· -	102	_	102 201	PH-
		\ \ 	65			VH-
		- \	58	P.		PH-
		- \	89	_	001 5011	FH-
Sample Comments		Ch	Depth	Date Time Sampled Sampled	Sample Identification Matrix	ID Sample
TAT starts the day received by the lab, if				Total Containers:		Sample Custody Seals:
Zn Acetate+ NaOH: Zn			2 - 2	Correction Factor:	Yes No	Cooler Custody Seals:
NaOH: Na				NIM ODU		Rece
HCL: HL			e: Yes No	Yes to	CI: The	SAMPLE RECEIPT
HNO3: HN				Quote #:	PO #	
None: NO			0	Hierro Due	ame: Chris Del	Sampler's Name:
MeOH: Me			×	Rush:	ation	Project Location
Freservative Codes		Code	Routine	Rou	nber:	Project Number:
	ANALYSIS REQUEST		Turn Around		ame: ZCUS SW	Project Name:
Deliverables: EDD ADaPT Other:		CDHCONSULT.COM	C	7468 Email:	Phone: 720 431	P
Reporting:Level III CLevel III CPST/UST CTRRP C1 even in/	Rep	e ZIP:	City,	Co 80220	1.	City, State ZIP:
Program: UST/PST PRP Brownfields RRC Superfund State of Project:	Pro	Address:	J Ad	Clemont St	Address: 9426 Cler	Ad
Work Order Comments	2	Name:	CONSULTING Company Name:	COH	Links 18000	Company Name:
	Bill to: (if different)	lifferent)	Bill to: (if different)	111010	1 D	

Final 1.001

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Final 1.001

	under A Hernandez & Ulor Mitter 16:30 101261202	Relinquished by: (Signature) Received by: (Signature) Date/Time Ru	the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the ill be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed.	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb Sb Ba Be Cd Cr Notice: Signature of this document and relinquishment of contract on the second		EPH-024 Soil 10126 1:22 7811 1 ~	023 Soil 10126 1:21 731	022 5011 10/26 1:13	1:07 68"	dentification Matrix Date Time Depth Matrix	No N/A Total Containers:	Yes No N/A Correction Factor:	taine	Temp Blank: Yes No Wet Ice: Yes No	PO #: Quote #:	Chris Del Hierro Due Date:	Rush: X	Ro	rn Around	Phone: 7204317468 Email: Chris@ CDHCONSUlt.COM	.q city, s	H St	onsulting	Project Manager: Chris Del Hierro Bill to: (if different)	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crastbad, NM (432) 704-5440 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach FL (561) 680-5704
		Relinquished by: (Signature)	s and subcontractors. It assigns standard terms and conditions client if such losses are due to circumstances beyond the contro These terms will be enforced unless previously negotiated.	Co Cu Fe Pb Mg Mn Mo Ni Se Ag																Com					San Antonio, TX (210) 509-3334 (806) 794-1296 Craslbad, NM (432) 70 (201-2000 Weet Palm Reach FI (561)
Revised Date 022619 Rev. 2019.1		ceived by: (Signature)		y Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn 1631/245.1/7470 /7471 : Hg						Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	Zn Acetate+ NaOH: Zn	NaOH: Na	HCL: HL	HNC3: HN	None: NO	MeOH: Me	UE31 Preservative Codes		Deliverables: EDD ADaPT Other	Reporting:Level III CPST/UST CTBBP CLOUGH IV	State of Project:	Work Order Comments	AA AA	Work Order No:

Certificate of Analysis Summary 678373

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:				Date Received in Lab: Wed 11.18.2020 16:40														
Contact:	Chris Del Hierro						Report Date: 11.24.2020 17:33											
Project Location:	Thornton, CO 80229								Pr	oject M	anager: Iren	e Vann						
		Lab Id:	678373-0	01	678373-0	02	678373-00)3	678373-0	04	678373-0	05	678373-00	06				
Analysis 1	Field Id:	WW2		WW4		WW6		WW8		WW10		WW12						
Analysis	Depth:	2- ft		4- ft		6- ft		8- ft		10- ft		12- ft						
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL					
		Sampled:	11.18.2020 (09:38	11.18.2020 ()9:39	11.18.2020 (09:40	11.18.2020 (09:40	11.18.2020 (09:41	11.18.2020 0)9:41				
Chlorid	e by EPA 300	Extracted:	11.19.2020	11.19.2020 15:42		11.19.2020 15:42		11.19.2020 15:42		15:42	11.19.2020	15:42	11.19.2020 1	15:42				
SUB: T10	4704400-20-21	Analyzed:	11.20.2020 (02:15	11.20.2020 (02:31	11.20.2020 (02:37	11.20.2020 (02:53	11.20.2020 (02:59	11.20.2020 0)3:04				
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride			11.3	9.92	363	9.96	501	10.0	786	10.0	255	49.9	1110	49.8				

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id: Contact: Project Location:	Chris Del Hierro Thornton, CO 80229	Date Received in Lab: Wed 11.18.2020 16:40 Report Date: 11.24.2020 17:33 Project Manager: Irene Vann												
		Lab Id:	678373-0		678373-00		678373-00)9	678373-0	10	678373-0	11	678373-01	12
Analysis Requested		Field Id:	WW14		WW16 16- ft		WW18		WW20		WW22		WW24	
	Depth:	14- ft	14- ft			18- ft		20- ft		22- ft		24- ft		
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	09:42	11.18.2020 ()9:43	11.18.2020 ()9:46	11.18.2020 ()9:46	11.18.2020 (09:46	11.18.2020 0	09:47
Chlorid	e by EPA 300	Extracted:	11.19.2020	15:42	11.19.2020	15:42	11.19.2020	5:42	11.19.2020	5:42	11.19.2020	17:44	11.19.2020 1	17:44
SUB: T10	SUB: T104704400-20-21 Analyzed		11.20.2020	03:10	11.20.2020 (03:15	11.20.2020 (03:21	11.20.2020 (03:26	11.20.2020 (03:59	11.20.2020 0	04:15
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			785	49.9	5250	50.4	8660	202	9690	199	9340	200	11500	198

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id: Contact: Project Location:	Chris Del Hierro Thornton, CO 80229		Date Received in Lab: Wed 11.18.2020 16:40 Report Date: 11.24.2020 17:33 Project Manager: Irene Vann											
		Lab Id: Field Id:	678373-0	-	678373-0		678373-0 WW30	15	678373-0 WW32	16	678373-0	17	678373-01 WW36	18
Analysis Requested		Depth:	WW26 26- ft			WW28 28- ft			32- ft		WW34 34- ft		36- ft	
	Matrix			SOIL			SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	09:48	11.18.2020 ()9:49	11.18.2020 (9:50	11.18.2020	09:53	11.18.2020 ()9:54	11.18.2020 0)9:56
	e by EPA 300	Extracted:	11.19.2020	17:44	11.19.2020	7:44	11.19.2020	7:44	11.19.2020	17:44	11.19.2020	17:44	11.19.2020 1	17:44
SUB: T104	SUB: T104704400-20-21 Analyzed		11.20.2020	04:21	11.20.2020 (04:26	11.20.2020 (04:32	11.20.2020	04:48	11.20.2020 ()4:54	11.20.2020 0)4:59
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			5990	50.0	198	10.1	704	10.1	516	10.1	336	9.94	322	9.98

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Certificate of Analysis Summary 678373

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id: Contact:	Chris Del Hierro	Date Received in Lab: Wed 11.18.2020 16:40 Report Date: 11.24.2020 17:33												
Project Location:	Thornton, CO 80229		Project Manager: Irene Vann											
	Analysis Requested			19	678373-02 WW40		678373-02 WW42	21	678373-0 WW44	22	678373-0 WW46	23	678373-02 WW48	24
Analysis Requested		Field Id: Depth:	WW38 38- ft				42- ft		44- ft		46- ft		48- ft	
		Matrix: Sampled:	SOIL 11.18.2020	09:57	SOIL 11.18.2020 1	0:00	SOIL 11.18.2020 1	0:01	SOIL 11.18.2020	10:02	SOIL 11.18.2020	10:03	SOIL 11.18.2020 1	10:04
	e by EPA 300	Extracted:	11.19.2020	17:44	11.19.2020 1	7:44	11.19.2020 1	7:44	11.19.2020	17:44	11.19.2020	17:44	11.19.2020 1	17:44
SUB: T104704400-20-21		Analyzed:	11.20.2020	05:05	11.20.2020 0	5:10	11.20.2020 (05:16	11.20.2020	05:32	11.20.2020	05:38	11.20.2020 (05:54
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			198	10.0	802	10.0	159	9.94	258	50.5	179	50.5	156	9.90

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Project Id:

eurofins Environment Testing Xenco

Certificate of Analysis Summary 678373

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Chris Del Hierro **Contact:** Report Date: 11.24.2020 17:33 Thornton, CO 80229 Project Manager: Irene Vann **Project Location:** Lab Id: 678373-025 678373-026 678373-027 678373-028 678373-029 Field Id: WW50 WW52 WW54 WW55 Top Soil WW Analysis Requested 50- ft 55- ft Depth: 52- ft 54- ft Matrix: SOIL SOIL SOIL SOIL SOIL Sampled: 11.18.2020 10:05 11.18.2020 10:06 11.18.2020 10:07 11.18.2020 10:08 11.18.2020 09:30 Chloride by EPA 300 11.19.2020 17:44 11.19.2020 17:44 11.19.2020 17:44 Extracted: 11.19.2020 17:44 11.19.2020 17:44 SUB: T104704400-20-21 Analyzed: 11.20.2020 06:00 11.20.2020 06:05 11.20.2020 06:11 11.20.2020 06:16 11.20.2020 06:21 mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL Units/RL: Chloride 199 9.92 206 49.9 151 49.4 163 9.98 7820 49.9

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Date Received in Lab: Wed 11.18.2020 16:40

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Analytical Report 678373

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for

CDH Consulting

Project Manager: Chris Del Hierro

Zeus CTB

11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

11.24.2020Project Manager: Chris Del HierroCDH Consulting9446 Clermont St.Thornton, CO 80229

Reference: Eurofins Xenco, LLC Report No(s): **678373 Zeus CTB** Project Address: Thornton, CO 80229

Chris Del Hierro:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678373. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678373 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Erica Morales Project Manager

A Small Business and Minority Company

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eurofins Environment Testing Xenco

Sample Cross Reference 678373

CDH Consulting, Thornton, CO

Zeus CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WW2	S	11.18.2020 09:38	2 ft	678373-001
WW4	S	11.18.2020 09:39	4 ft	678373-002
WW6	S	11.18.2020 09:40	6 ft	678373-003
WW8	S	11.18.2020 09:40	8 ft	678373-004
WW10	S	11.18.2020 09:41	10 ft	678373-005
WW12	S	11.18.2020 09:41	12 ft	678373-006
WW14	S	11.18.2020 09:42	14 ft	678373-007
WW16	S	11.18.2020 09:43	16 ft	678373-008
WW18	S	11.18.2020 09:46	18 ft	678373-009
WW20	S	11.18.2020 09:46	20 ft	678373-010
WW22	S	11.18.2020 09:46	22 ft	678373-011
WW24	S	11.18.2020 09:47	24 ft	678373-012
WW26	S	11.18.2020 09:48	26 ft	678373-013
WW28	S	11.18.2020 09:49	28 ft	678373-014
WW30	S	11.18.2020 09:50	30 ft	678373-015
WW32	S	11.18.2020 09:53	32 ft	678373-016
WW34	S	11.18.2020 09:54	34 ft	678373-017
WW36	S	11.18.2020 09:56	36 ft	678373-018
WW38	S	11.18.2020 09:57	38 ft	678373-019
WW40	S	11.18.2020 10:00	40 ft	678373-020
WW42	S	11.18.2020 10:01	42 ft	678373-021
WW44	S	11.18.2020 10:02	44 ft	678373-022
WW46	S	11.18.2020 10:03	46 ft	678373-023
WW48	S	11.18.2020 10:04	48 ft	678373-024
WW50	S	11.18.2020 10:05	50 ft	678373-025
WW52	S	11.18.2020 10:06	52 ft	678373-026
WW54	S	11.18.2020 10:07	54 ft	678373-027
WW55	S	11.18.2020 10:08	55 ft	678373-028
Top Soil WW	S	11.18.2020 09:30	N/A	678373-029

Environment Testing Xenco

CASE NARRATIVE

Client Name: CDH Consulting Project Name: Zeus CTB

Project ID: Work Order Number(s): 678373 Report Date: *11.24.2020* Date Received: *11.18.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW2 Lab Sample Id: 678373-001	Matrix: Date Co	Soil llected: 11.18.2020 09:3	8	Date Received:11.1 Sample Depth: 2 ft	8.2020 16	:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891	Date Pre	ep: 11.19.2020 15:4	2	% Moisture: Basis: Wet SUB: T104704400-	Weight -20-21	
Parameter Cas Nur	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	6 11.3	9.92	mg/kg	11.20.2020 02:15		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW4Lab Sample Id:678373-002	Matrix: Date Col	Soil lected: 11.18.2020 09:39		Date Received:11.1 Sample Depth: 4 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Prep	p: 11.19.2020 15:42		% Moisture: Basis: Wet	Weight	
Seq Number: 3142891				SUB: T104704400-	U	
Parameter Cas Nun	ıber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	5 363	9.96	mg/kg	11.20.2020 02:31		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW6 Lab Sample Id: 678373-003	Matrix: Date Co	Soil llected: 11.18.2020 09:40		Date Received:11.1 Sample Depth: 6 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Pre	ep: 11.19.2020 15:42		% Moisture: Basis: Wet	Weight	
Seq Number: 3142891				SUB: T104704400-	0	
Parameter Cas Nur	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	6 501	10.0	mg/kg	11.20.2020 02:37		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW8 Lab Sample Id: 678373-004		Matrix: Date Collected	Soil : 11.18.2020 09:40		Date Received: Sample Depth:		5:40
Analytical Method: Chloride by EPA 300					Prep Method:	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 15:42		% Moisture: Basis:	Wet Weight	
Seq Number: 3142891					SUB: T104704	0	
Parameter C	as Number R	esult RL		Units	Analysis Dat	te Flag	Dil
Chloride 168	887-00-6	786 10).0	mg/kg	11.20.2020 02:	:53	1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW10 Lab Sample Id: 678373-005	Matrix Date C	: Soil Collected: 11.18.2020 09:4	1	Date Received:11.1 Sample Depth: 10 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891	Date P	rep: 11.19.2020 15:4	2	% Moisture: Basis: Wet SUB: T104704400-	Weight -20-21	
Parameter Cas N	umber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 255	49.9	mg/kg	11.20.2020 02:59		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW12 Lab Sample Id: 678373-006	Matrix: Date Co	Soil llected: 11.18.2020 09:41		Date Received:11.1 Sample Depth: 12 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891	Date Pre	ep: 11.19.2020 15:42	2	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Nu	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	-6 1110	49.8	mg/kg	11.20.2020 03:04		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW14 Lab Sample Id: 678373-007	Matrix Date C	: Soil collected: 11.18.2020 09:42		Date Received:11.1 Sample Depth: 14 ft		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891	Date P	rep: 11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas N	umber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	785	49.9	mg/kg	11.20.2020 03:10		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW16 Lab Sample Id: 678373-008		Matrix: Date Collected	Soil : 11.18.2020 09:43		Date Received:1 Sample Depth: 1		40
Analytical Method: Chloride by EPA 300	0				Prep Method: E	300P	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: W SUB: T1047044	Vet Weight 00-20-21	
Parameter	Cas Number I	Result RL		Units	Analysis Date	Flag	Dil
Chloride 16	5887-00-6	5250 50	0.4	mg/kg	11.20.2020 03:1	5	5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW18 Lab Sample Id: 678373-009		Matrix: Date Collecte	Soil ed: 11.18.2020 09:46		Date Received:11.1 Sample Depth: 18 f		:40
Analytical Method: Chloride by EPA 3	300				Prep Method: E30	0P	
Tech: MAB Analyst: MAB Sea Number: 3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet	Weight	
Seq Number: 3142891					SUB: T104704400-	20-21	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8660	202	mg/kg	11.20.2020 03:21		20

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW20 Lab Sample Id: 678373-010		Matrix: Date Collecte	Soil d: 11.18.2020 09:46		Date Received:11.1 Sample Depth: 20 ft		40
Analytical Method: Chloride by EPA 3	00				Prep Method: E300)P	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9690	199	mg/kg	11.20.2020 03:26		20

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW22 Lab Sample Id: 678373-011		Matrix: Date Collected	Soil : 11.18.2020 09:46		Date Received:11 Sample Depth: 22		0
Analytical Method: Chloride by EPA 300)				Prep Method: E3	300P	
Tech:MABAnalyst:MABSeq Number:3142892		Date Prep:	11.19.2020 17:44		% Moisture: Basis: W SUB: T10470440	Vet Weight 10-20-21	
Parameter C	Cas Number R	esult RL		Units	Analysis Date	Flag	Dil
Chloride 16	887-00-6	9340 2	00	mg/kg	11.20.2020 03:59)	20

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW24 Lab Sample Id: 678373-012		Matrix: Date Collecte	Soil d: 11.18.2020 09:47		Date Received:11.1 Sample Depth: 24 ft		:40
Analytical Method: Chloride by EPA 3	00				Prep Method: E300)P	
Tech:MABAnalyst:MABSeq Number:3142892		Date Prep:	11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result R	<u>.</u>	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11500	198	mg/kg	11.20.2020 04:15		20

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW26 Lab Sample Id: 678373-013	Matrix: Date Collec	Soil cted: 11.18.2020 09:48		Date Received:11.1 Sample Depth: 26 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date Prep:	11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	5990	50.0	mg/kg	11.20.2020 04:21		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW28 Lab Sample Id: 678373-014	Matrix Date C	:: Soil Collected: 11.18.2020 09:49		Date Received:11.1 Sample Depth: 28 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date P	rep: 11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400	t Weight -20-21	
Parameter Cas N	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	00-6 198	10.1	mg/kg	11.20.2020 04:26		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW30 Lab Sample Id: 678373-015	Matrix: Date Colle	Soil ected: 11.18.2020 09:50		Date Received:11.1 Sample Depth: 30 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date Prep:	11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	704	10.1	mg/kg	11.20.2020 04:32		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW32 Lab Sample Id: 678373-016		Matrix: Date Collected:	Soil 11.18.2020 09:53		Date Received:1 Sample Depth: 3		40
Analytical Method: Chloride by EPA 300					Prep Method: E	E300P	
Tech:MABAnalyst:MABSeq Number:3142892		Date Prep:	11.19.2020 17:44		% Moisture: Basis: V SUB: T1047044	Wet Weight 00-20-21	
Parameter Ca	as Number Re	esult RL		Units	Analysis Date	e Flag	Dil
Chloride 168	87-00-6	516 10	0.1	mg/kg	11.20.2020 04:4	8	1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW34Lab Sample Id:678373-017	Matrix: Date Coll	Soil lected: 11.18.2020 09:54		Date Received:11.1 Sample Depth: 34 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Prep	p: 11.19.2020 17:44		% Moisture: Basis: Wet	Weight	
Seq Number: 3142892				SUB: T104704400-	U	
Parameter Cas Num	ıber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-0	5 336	9.94	mg/kg	11.20.2020 04:54		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW36 Lab Sample Id: 678373-018		Matrix: Date Colle	Soil ected: 11.18.2020 09:56	i	Date Received:11.1 Sample Depth: 36 f		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prepa	11.19.2020 17:44		% Moisture: Basis: Wet	Weight	
Seq Number: 3142892					SUB: T104704400-	0	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	322	9.98	mg/kg	11.20.2020 04:59		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW38 Lab Sample Id: 678373-019	Matrix: Date Co	Soil bllected: 11.18.2020 09:57	7	Date Received:11.1 Sample Depth: 38 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Pr	ep: 11.19.2020 17:44	Ļ	% Moisture: Basis: Wet	Weight	
Seq Number: 3142892				SUB: T104704400-	0	
Parameter Cas Nu	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00	-6 198	10.0	mg/kg	11.20.2020 05:05		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW40 Lab Sample Id: 678373-020	Matrix: Date Colle	Soil ected: 11.18.2020 10:00		Date Received:11.1 Sample Depth: 40 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Prep:	11.19.2020 17:44		% Moisture: Basis: Wet	Weight	
Seq Number: 3142892				SUB: T104704400-	0	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	802	10.0	mg/kg	11.20.2020 05:10		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW42Lab Sample Id:678373-021	Matrix: Date Co	Soil llected: 11.18.2020 10:01		Date Received:11.1 Sample Depth: 42 ft		5:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	OP	
Tech:MABAnalyst:MABSeq Number:3142892	Date Pre	ер: 11.19.2020 17:44	Ļ	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Nun	ıber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	6 159	9.94	mg/kg	11.20.2020 05:16		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW44 Lab Sample Id: 678373-022	Matrix: Date Colle	Soil ected: 11.18.2020 10:02		Date Received:11.1 Sample Depth: 44 ft		5:40
Analytical Method: Chloride by EPA 300				Prep Method: E300	OP	
Tech:MABAnalyst:MABSeq Number:3142892	Date Prep	: 11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Numb	er Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	258	50.5	mg/kg	11.20.2020 05:32		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW46Lab Sample Id:678373-023	Matrix: Date Colle	Soil ected: 11.18.2020 10:03		Date Received:11.1 Sample Depth: 46 f		5:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date Prep	: 11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Numb	oer Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	179	50.5	mg/kg	11.20.2020 05:38		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW48Lab Sample Id:678373-024	Matrix: Date Co	Soil ollected: 11.18.2020 10:0)4	Date Received:11.1 Sample Depth: 48 f		5:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date Pr	ep: 11.19.2020 17:4	14	% Moisture: Basis: Wet SUB: T104704400-	: Weight -20-21	
Parameter Cas Nur	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	-6 156	9.90	mg/kg	11.20.2020 05:54		1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:WW50Lab Sample Id:678373-025			Soil 11.18.2020 10:05		Date Received: Sample Depth:		40
Analytical Method: Chloride by EPA 300					Prep Method: 1	E300P	
Tech:MABAnalyst:MABSeq Number:3142892		Date Prep:	11.19.2020 17:44		% Moisture: Basis: SUB: T1047044	Wet Weight 400-20-21	
Parameter Ca	s Number Res	sult RL		Units	Analysis Date	e Flag	Dil
Chloride 1688	37-00-6	199 9.9	92	mg/kg	11.20.2020 06:0	00	1

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW52 Lab Sample Id: 678373-026	Matrix Date C	:: Soil Collected: 11.18.2020 10:06		Date Received:11.1 Sample Depth: 52 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date F	rep: 11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas N	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	00-6 206	49.9	mg/kg	11.20.2020 06:05		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW54 Lab Sample Id: 678373-027	Matrix Date C	: Soil Collected: 11.18.2020 10:07		Date Received:11.1 Sample Depth: 54 ft		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date P	rep: 11.19.2020 17:44		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas I	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	-00-6 151	49.4	mg/kg	11.20.2020 06:11		5

Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: WW55 Lab Sample Id: 678373-028	Matrix Date C	x: Soil Collected: 11.18.2020	10:08	Date Received:11.1 Sample Depth: 55 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142892	Date F	Prep: 11.19.2020	17:44	% Moisture: Basis: Wet SUB: T104704400-	Weight -20-21	
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00)-6 163	9.98	mg/kg	11.20.2020 06:16		1
Certificate of Analytical Results 678373

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:Top Soil WWLab Sample Id:678373-029	Matri Date		Soil 11.18.2020 09:30		Date Received	l:11.18	.2020 16:4	40
Analytical Method: Chloride by EPA 300					Prep Method:	E300]	Р	
Tech: MAB								
Analyst: MAB	Date	Prep:	11.19.2020 17:44		% Moisture: Basis:	W-4 V	¥7-:-1-4	
Seq Number: 3142892		-			SUB: T104704		Weight 0-21	
Parameter Cas N	umber Result	RL		Units	Analysis Da	ate	Flag	Dil
Chloride 16887-0	00-6 782	0 49	9.9	mg/kg	11.20.2020 06	5:21		5

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ble Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 678373

eurofins Environment Testing Xenco

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Zeus CTB

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3142891 7715577-1-H		00		Matrix: nple Id:	Solid 7715577-	1-BKS			ep Methe Date Pr D Sample	ep: 11.1	0P 9.2020 5577-1-BSD	
Parameter		MB	Spike	LCS Barrit		LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <10.0	Amount 250	Result 257	%Rec 103	Result 257	%Rec 103	90-110	0	Limit 20	mg/kg	Date 11.20.2020 00:47	
Analytical Method: Seq Number: MB Sample Id:	Chloride by 3142892 7715579-1- F		00		Matrix:	Solid 7715579-	1-BKS			ep Methe Date Pr D Sample	ep: 11.1	0P 9.2020 5579-1-BSD	
Parameter	//155/7/11	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <10.0	Amount 250	Result 256	%Rec 102	Result 257	%Rec 103	90-110	0	Limit 20	mg/kg	Date 11.20.2020 03:48	g
			200	200	102	207	100	<i>y</i> 0 110	Ū	20			
Analytical Method: Seq Number: Parent Sample Id:	Chloride by 3142891 678372-009	EPA 3	00		Matrix: nple Id:	Soil 678372-00	09 S			ep Methe Date Pr D Sample	ep: 11.1	0P 9.2020 372-009 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 8290	Amount 200	Result 8480	%Rec 95	Result 8500	%Rec 104	90-110	0	Limit 20	mg/kg	Date 11.20.2020 01:04	
Analytical Method: Seq Number:	3142891	EPA 30	DO		Matrix:					ep Metho Date Pr	ep: 11.1	9.2020	
Seq Number: Parent Sample Id:	-	EPA 30				678373-0		Limits	MS	Date Pr	ep: 11.1	9.2020 373-001 SD	Elec
Seq Number: Parent Sample Id: Parameter	3142891	Parent Result	Spike Amount	MS Sar MS Result	nple Id: MS %Rec	678373-00 MSD Result	MSD %Rec		MS] %RPD	Date Pr D Sample RPD Limit	ep: 11.1 e Id: 6783 Units	9.2020 373-001 SD Analysis Date	Flag
Seq Number: Parent Sample Id:	3142891	Parent	Spike	MS Sar MS	nple Id: MS	678373-00 MSD	MSD	Limits 90-110	MS	Date Pr D Sample RPD	ep: 11.1 e Id: 678.	9.2020 373-001 SD Analysis	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142891 678373-001 Chloride by 3142892	Parent Result 11.3	Spike Amount 200	MS Sar MS Result 218	mple Id: MS %Rec 103 Matrix:	678373-00 MSD Result 217 Soil	MSD %Rec 103		MS) %RPD 0 Pt	Date Pr D Sample RPD Limit 20 rep Methe Date Pr	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3142891 678373-001 Chloride by	Parent Result 11.3 EPA 3(Parent	Spike Amount 200 00 Spike	MS Sar MS Result 218 MS Sar MS	nple Id: MS %Rec 103 Matrix: nple Id: MS	678373-00 MSD Result 217	MSD %Rec 103		MS) %RPD 0 Pt	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis	Flag Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142891 678373-001 Chloride by 3142892	Parent Result 11.3 FEPA 3(Spike Amount 200	MS Sar MS Result 218 MS Sar	nple Id: MS %Rec 103 Matrix: nple Id:	678373-00 MSD Result 217 Soil 678373-0	MSD %Rec 103	90-110 Limits	MS %RPD 0 Pr MS	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678:	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3142891 678373-001 Chloride by 3142892	Parent Result 11.3 FEPA 3(Parent Result	Spike Amount 200 00 Spike Amount	MS Sar MS Result 218 MS Sar MS Result	nple Id: MS %Rec 103 Matrix: nple Id: MS %Rec	678373-00 MSD Result 217 Soil 678373-0 MSD Result	MSD %Rec 103 11 S MSD %Rec	90-110 Limits	MS %RPD 0 Pr MS %RPD	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD Limit	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678: Units	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis Date	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3142891 678373-001 Chloride by 3142892 678373-011	Parent Result 11.3 EPA 3 Parent Result 9340	Spike Amount 200 00 Spike Amount 200	MS Sar MS Result 218 MS Sar MS Result 9530	nple Id: MS %Rec 103 Matrix: nple Id: MS %Rec 95 Matrix:	678373-00 MSD Result 217 Soil 678373-0 MSD Result 9530 Soil	MSD %Rec 103 11 S MSD %Rec 95	90-110 Limits	MS % RPD 0 Pr MS % RPD 0 Pr	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD Limit 20	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis Date 11.20.2020 04:05 0P 9.2020	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3142891 678373-001 Chloride by 3142892 678373-011 Chloride by	Parent Result 11.3 EPA 3(Parent Result 9340 EPA 3(Spike Amount 200 00 Spike Amount 200	MS Sar MS Result 218 MS Sar MS Result 9530	nple Id: MS %Rec 103 Matrix: nple Id: MS %Rec 95 Matrix: nple Id:	678373-00 MSD Result 217 Soil 678373-0 MSD Result 9530 Soil 678373-02	MSD %Rec 103 11 S %Rec 95 21 S	90-110 Limits 90-110	MS % RPD 0 Pr MS % RPD 0 Pr MS	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678:	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis Date 11.20.2020 04:05 0P 9.2020 373-021 SD	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142891 678373-001 Chloride by 3142892 678373-011 Chloride by 3142892	Parent Result 11.3 EPA 3 Parent Result 9340	Spike Amount 200 00 Spike Amount 200	MS Sar MS Result 218 MS Sar MS Result 9530	nple Id: MS %Rec 103 Matrix: nple Id: MS %Rec 95 Matrix:	678373-00 MSD Result 217 Soil 678373-0 MSD Result 9530 Soil	MSD %Rec 103 11 S MSD %Rec 95	90-110 Limits	MS % RPD 0 Pr MS % RPD 0 Pr	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD Limit 20	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis Date 11.20.2020 04:05 0P 9.2020	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3142891 678373-001 Chloride by 3142892 678373-011 Chloride by 3142892	Parent Result 11.3 EPA 3(Parent Result 9340 EPA 3(Parent	Spike Amount 200 00 Spike Amount 200 00 Spike	MS Sar MS Result 218 MS Sar MS Result 9530 MS Sar MS Sar	nple Id: MS %Rec 103 Matrix: nple Id: MS %Rec 95 Matrix: nple Id: MS	678373-00 MSD Result 217 Soil 678373-0 MSD Result 9530 Soil 678373-02 MSD	MSD %Rec 103 11 S MSD %Rec 95 21 S MSD	90-110 Limits 90-110	MS % RPD 0 Pr MS % RPD 0 Pr MS	Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD Limit 20 rep Methe Date Pr D Sample RPD	ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678: Units mg/kg od: E30 ep: 11.1 e Id: 678:	9.2020 373-001 SD Analysis Date 11.20.2020 02:20 0P 9.2020 373-011 SD Analysis Date 11.20.2020 04:05 0P 9.2020 373-021 SD Analysis	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.000
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eived by OC	CD: 1	2/2	/2020	2:05:0	18 1	PM -	Τ			T	T	Т	Т	-	1			_	-			-	_		_					Pa	ige 148 of 2
		have Herran a	Of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be Relinquished by: (Signature) Bench of the Net State to Xenco, but not analyzed. These terms will be	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xence its affiliate and a structure of the second or Cord Cord Cord Cord Cord Cord Cord	Total 200.7 / 6010 200.8 / 6020:			0		CI WW							Sample Custody Seals: Yes No	(Veg	°C): (0,	SAMPLE RECEIPT Terr		Sampler's Name: Andrea	Project Location		Project Name: ZEUS 0	Phone: 720 - 43		444		Chris	
	4	increased by: (oignature)	amples and shall not assume any responsibility id to each project and a charge of \$5 for each sa	be analyzed TCLP / SPLP 6010: 8RCRA ant of samples constitutes a valid purchase order from client com	0: 8RCRA 13PPM	Soil 11-18 9:46	11-18	21-12	2011 11-18 411 1102	11-18	11-18	11-18	Soil 11-18 9:39	11-18	Matrix Sampled Sampled	INA Iotal Co	N/A C		Thermometer ID	Temp Blank: Yes No Wet Ice:	Quote #:	Hernondez Due Dat	District			31 - 7468 Email:	on, co 80229	cicrmont st	consulting	Del Hierro	DRIES Midland, TX (432) 70- Phoenix, AZ (480) 355-03
	24591 02 18111		for any losses or expenses incurred by the cl mple submitted to Xenco, but not analyzed. T	110: 8RCRA Sb As Ba Be Cd	PM Texas 11 AI Sb As Ba Be	20' 1 /	_				01 1	61 1 /	4 1 /	2' 1 /	Depth Numl		of Cor	ntain	lers	Yac No				tino Pres.	_	Chris @ Conconsult.	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crastbad, NM (Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa El (414) 600 9000 West Science (100)
Ø	61 4	Relinquis	and supcontractors. It assigns standard terms and conditions lient if such losses are due to circumstances beyond the control "hese terms will be enforced unless previously negotiated.	Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	B Cd Ca																			ANALYSIS REQUEST		UIT. COM				1000 West Faill Beach, FL (361) 689-670	
		Received by: (Signature)		K Se Ag SiO2 Na												TAT s	Zn Ac	NaOH	HCL: HL	H2SC	HNO	None	MeO	IEST				State of Brainst	Work Order Comments	WW	Work Order No:
Revised Date 022619 Rev. 2019.1		Date/Time		a Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg											Sample Commente	TAT starts the day recevied by the lab, if received by 4:00pm	Zn Acetate+ NaOH: Zn	NaOH: Na	Ĩ	H2S04: H2	HNO3: HN	None: NO	MeOH: Me	Preservative Codes	Other:]	ds RRC Superfund	ments	Page 1 of 5	54 68 49

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ived by O		Michen & Cleman		Circle Method(s) and Metal(s) to be analyzed TCLP / SPI Notice: Signature of this document and relinquishment of samples constitutes a valid number	Total 2007/6040 0000/0000 Soil 11-18		2011 11-10	11-18	Soir1 11-18	Soil 11-18	So'il 11-18	Soil 11-18		Lab Sample Identification Matrix Date Time	Sample Custody Seals: Yes No N/A	Yes No	Received Intact: No Thermometer ID	Temp Blank: Yes No		Andrea Hernandez			CTR	720-431-7468	ton . (n Br	-	\sim	Project Manager: Chris Del Hierr	ge 149
5	1/18/20 22 24°20 2		unase order from client company to Xenco, its affiliates and subcontractor onsibility for any losses or expenses incurred by the client if such losses or each sample submitted to Xenco, but not analyzed. These terms will be	8RCRA 13PPM Texas 11 AI Sb As Ba Be B TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr		4 36' 1 /	1	32'		281	261		101	Depth umber	· of (Conta	ainer	Wetter: Yes No s		Due Date:	Rush Code	I urn Around Pres.	T CANNE CONTOURSULT. CO	Chiy, stat		Address:	Company Name	O Bill to: 15 June 100 June 10	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crasibad, NM (openix AZ (480) 355-0000 Attento CA (770) Midland CA
		Relinquished by: (Signature)	Id subcontractors. It assigns standard terms and conditions nt if such losses are due to circumstancos beyond the control se terms will be enforced unless previously negotiated.	B Cd Ca Cr Co Cu Fe Pb Mg Mn N Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																		ANALYSIS REQUEST	M					813) 620-2000 West Palm Beach, FL (561) 689-6701	300 San Antonio,TX (210) 509-3334 k,TX (806) 794-1296 Crasibad, NM (432) 704-5440
		Received by: (Signature)	_	K Se Ag SiO2 Na									S		TAT starts	Zn Aceta		H2S04: H2	HNO3: HN	None: NO	MeOH: Me		Deliverables: EDD	Reporting:Level II Level III PST/UST TRRP Level IV	State of Project:		Work Order Comments	www.xenco.com	Work Order No:
Revised Date 022619 Rev. 2019; 1		Date/Timo	G	1 Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Ha									Sample Comments	received by 4:00pm	s the day received by the lab	Zn Acetate+ NaOH: Zn		H2	HN	40	Me	Preservative Codes	Other:			RRC Superfund	ints	Page Z of 3	610372

Final 1.000

ocD: 12/2. Jendhay (Lernanda g) Date/Time	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be (Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Xenco, its affilia of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the function of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed Relinquished have formation.	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPA	1 25 80:01 81-11 1:05 55 Mil	11-18 10:06 52 1 1	WWX SO Soil 11-18 10:04 48 1 /	Soil 11-18 10:03 461	WWYZ Coil line Depth Nu	Total Containers: Date Time	Yes No N/A Correction Factor:	C): Charles Hold Thermometer ID ainers	T Temp Blank by Vol No West Inc.	2	Rush:		Zeus CTR	BULLY City, State ZIF	THOMAN OFFICE	CDH Consulting, LLC	Chris Del Hierr	BORAT
Relinquished by: (Signature) 2 4 6	b Mn Mo Ni Se b. It assigns standard t are due to circumstance enforced unless previou													ANALYSIS REQUEST	00					-0300 San Antonio.TX (210) 509-3334 ock.TX (806) 794-1296 Crasibad, NM (432) 704-5440 L (813) 620-2000 West Palm Beach. FI (561) R80-5704
Received by: (Signature)	Mg Min Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Ag Ti U erms and conditions ss beyond the control isly negotiated.							TAT starts the day received by the lab received by 4:00pm	Zn Acetate+ NaOH: Zn	HCL: HL NaOH: Na	H2S04: H2	None: NO HNO3: HN	MeOH: Me	UEST	Deliverables: EDD ADaPT	Reporting:Level II CLevel III PST/UST TRRP Level IV	State of Project:	Program: UST/PST PRP Brownfields BBC Super-	AA AX	

Released to Imaging: 2/5/2021 11:24:34 AM

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: CDH Consulting	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11.18.2020 04.40.00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 678373	Temperature Measuring device used :
Sample Recei	ot Checklist Comments
#1 *Temperature of cooler(s)?	5.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Νο
#5 Custody Seals intact on sample bottles?	No
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Massimation
 Date: 11.18.2020

 Martha Castro
 Date: 11.19.2020

 Checklist reviewed by:
 Martha Castro
 Date: 11.19.2020

 Irene Vann
 Date: 11.19.2020

eurofins Environment Testing Xenco

Certificate of Analysis Summary 678372

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:									Date R	eceived	in Lab: Wea	111.18.2	2020 16:40	
Contact:	Chris Del Hierro									Repo	rt Date: 11.2	4.2020 1	17:32	
Project Location:	Thornton, CO 80229								Pr	oject M	anager: Iren	e Vann		
		Lab Id:	678372-0	01	678372-00	02	678372-00)3	678372-0	04	678372-0	05	678372-00)6
Analysis	Requested	Field Id:	Top Soil H	ole 1	H2		H4		H6		H8		H10	
2 Indiysis 1	пецисыси	Depth:	0- ft		2- ft		4- ft		6- ft		8- ft		10- ft	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	10:39	11.18.2020	10:40	11.18.2020 1	0:51	11.18.2020	10:52	11.18.2020	10:54	11.18.2020 1	0:55
Chlorid	le by EPA 300	Extracted:	11.19.2020	14:30	11.19.2020	14:30	11.19.2020 1	4:30	11.19.2020	14:30	11.19.2020	14:30	11.19.2020 1	4:30
SUB: T10	4704400-20-21	Analyzed:	11.19.2020	23:36	11.19.2020 2	23:53	11.19.2020 2	3:58	11.20.2020	00:03	11.20.2020	00:09	11.20.2020 0	00:14
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			18600	200	7350	101	3990	100	2600	101	3130	101	3650	100

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 678372

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.

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:									Date R	eceived	in Lab: Wea	111.18.2	020 16:40	
Contact:	Chris Del Hierro									Repor	rt Date: 11.2	24.2020 1	7:32	
Project Location:	Thornton, CO 80229								Pr	oject M	anager: Iren	e Vann		
		Lab Id:	678372-0	07	678372-00)8	678372-00)9	678372-0	10	678372-0	11	678372-01	12
Analysis	Requested	Field Id:	H12		H14		H16		H18		H20		H22	
21/1/1/95/51	nequesieu	Depth:	12- ft		14- ft		16- ft		18- ft		20- ft		22- ft	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	0:58	11.18.2020 1	0:59	11.18.2020 1	1:00	11.18.2020 1	11:02	11.18.2020	11:02	11.18.2020 1	11:03
	le by EPA 300	Extracted:	11.19.2020	4:30	11.19.2020 1	4:30	11.19.2020 1	5:42	11.19.2020 1	15:42	11.19.2020	15:42	11.19.2020 1	15:42
SUB: T10	4704400-20-21	Analyzed:	11.20.2020 (00:20	11.20.2020 (0:25	11.20.2020 (0:58	11.20.2020 (01:15	11.20.2020	01:20	11.20.2020 0	01:26
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			7680	200	6280	99.8	8290	199	9010	202	9210	202	9670	202

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eurofins Environment Testing Xenco

Certificate of Analysis Summary 678372

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:									Date R	eceived	in Lab: Wea	111.18.2	020 16:40	
Contact:	Chris Del Hierro									Repo	rt Date: 11.2	4.2020 1	7:32	
Project Location:	Thornton, CO 80229								Pr	oject M	anager: Iren	e Vann		
		Lab Id:	678372-0	13	678372-0	14	678372-0	15	678372-0	16	678372-0	17	678372-0	18
Analysis 1	Requested	Field Id:	H24		H26		H28		H30		H32		H34	
	Requesieu	Depth:	24- ft		26- ft		28- ft		30- ft		32- ft		34- ft	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	11:04	11.18.2020	11:05	11.18.2020	11:06	11.18.2020	11:06	11.18.2020	11:09	11.18.2020 1	11:09
Chlorid	e by EPA 300	Extracted:	11.19.2020	15:42	11.19.2020	15:42	11.19.2020	15:42	11.19.2020	15:42	11.19.2020	15:42	11.19.2020 1	15:42
SUB: T10	4704400-20-21	Analyzed:	11.20.2020 (01:31	11.20.2020 (01:48	11.20.2020 (01:53	11.20.2020	01:59	11.20.2020	02:04	11.20.2020 (02:09
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			8060	100	1610	99.2	844	49.9	544	9.96	1570	49.7	1060	50.4

BRL - Below Reporting Limit

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eurofins Environment Testing Xenco

Analytical Report 678372

for

CDH Consulting

Project Manager: Chris Del Hierro

Zeus CTB

11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

11.24.2020
Project Manager: Chris Del Hierro
CDH Consulting
9446 Clermont St.
Thornton, CO 80229

Reference: Eurofins Xenco, LLC Report No(s): **678372 Zeus CTB** Project Address: Thornton, CO 80229

Chris Del Hierro:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678372. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678372 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Erica Morales Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins Environment Testing Xenco

Sample Cross Reference 678372

CDH Consulting, Thornton, CO

Zeus CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Top Soil Hole 1	S	11.18.2020 10:39	0 ft	678372-001
H2	S	11.18.2020 10:40	2 ft	678372-002
H4	S	11.18.2020 10:51	4 ft	678372-003
H6	S	11.18.2020 10:52	6 ft	678372-004
H8	S	11.18.2020 10:54	8 ft	678372-005
H10	S	11.18.2020 10:55	10 ft	678372-006
H12	S	11.18.2020 10:58	12 ft	678372-007
H14	S	11.18.2020 10:59	14 ft	678372-008
H16	S	11.18.2020 11:00	16 ft	678372-009
H18	S	11.18.2020 11:02	18 ft	678372-010
H20	S	11.18.2020 11:02	20 ft	678372-011
H22	S	11.18.2020 11:03	22 ft	678372-012
H24	S	11.18.2020 11:04	24 ft	678372-013
H26	S	11.18.2020 11:05	26 ft	678372-014
H28	S	11.18.2020 11:06	28 ft	678372-015
H30	S	11.18.2020 11:06	30 ft	678372-016
H32	S	11.18.2020 11:09	32 ft	678372-017
H34	S	11.18.2020 11:09	34 ft	678372-018

Environment Testing Xenco

CASE NARRATIVE

Client Name: CDH Consulting Project Name: Zeus CTB

Project ID: Work Order Number(s): 678372 Report Date: *11.24.2020* Date Received: *11.18.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:Top Soil Hole 1Lab Sample Id:678372-001		Matrix: Date Collec	Soil eted: 11.18.2020 10:39		Date Received:11.1 Sample Depth: 0 ft	8.2020 16	:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	OP	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18600	200	mg/kg	11.19.2020 23:36		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H2 Lab Sample Id: 678372-002		Matrix: Date Collect	Soil ed: 11.18.2020 10:40		Date Received:11.1 Sample Depth: 2 ft	8.2020 16	:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result I	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7350	101	mg/kg	11.19.2020 23:53		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H4 Lab Sample Id: 678372-003		Matrix: Date Collec	Soil ted: 11.18.2020 10:51		Date Received:11.1 Sample Depth: 4 ft	8.2020 16	:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result J	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3990	100	mg/kg	11.19.2020 23:58		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H6 Lab Sample Id: 678372-004		Matrix: Date Collec	Soil eted: 11.18.2020 10:52		Date Received:11.1 Sample Depth: 6 ft	8.2020 16	:40
Analytical Method: Chloride by EPA	300				Prep Method: E30)P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2600	101	mg/kg	11.20.2020 00:03		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H8 Lab Sample Id: 678372-005		Matrix: Date Collecte	Soil d: 11.18.2020 10:54		Date Received:11.1 Sample Depth: 8 ft	8.2020 16:	40
Analytical Method: Chloride by EPA 3	800				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet	Weight	
Seq Number: 3142889					SUB: T104704400-	0	
Parameter	Cas Number	Result RI	_	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3130	101	mg/kg	11.20.2020 00:09		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H10 Lab Sample Id: 678372-006		Matrix: Date Collect	Soil ed: 11.18.2020 10:55		Date Received:11.1 Sample Depth: 10 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	OP	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result F	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3650	100	mg/kg	11.20.2020 00:14		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H12 Lab Sample Id: 678372-007		Matrix: Date Collec	Soil ted: 11.18.2020 10:58		Date Received:11.1 Sample Depth: 12 ft		:40
Analytical Method: Chloride by EPA 3	00				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result I	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7680	200	mg/kg	11.20.2020 00:20		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:H14Lab Sample Id:678372-008			Soil 11.18.2020 10:59		Date Received: Sample Depth:		:40
Analytical Method: Chloride by EPA 300					Prep Method:	E300P	
Tech:MABAnalyst:MABSeq Number:3142889	Da	ate Prep:	11.19.2020 14:30		% Moisture: Basis: SUB: T104704	Wet Weight 400-20-21	
Parameter Ca	s Number Resul	t RL		Units	Analysis Da	te Flag	Dil
Chloride 1688	7-00-6 (6280 99.	8	mg/kg	11.20.2020 00	:25	10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H16 Lab Sample Id: 678372-009		Matrix: Date Collecte	Soil ed: 11.18.2020 11:00		Date Received:11.1 Sample Depth: 16 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	OP	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8290	199	mg/kg	11.20.2020 00:58		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H18 Lab Sample Id: 678372-010		Matrix: Date Collec	Soil ted: 11.18.2020 11:02		Date Received:11.1 Sample Depth: 18 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E300	OP	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9010	202	mg/kg	11.20.2020 01:15		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H20 Lab Sample Id: 678372-011		Matrix: Date Collect	Soil ed: 11.18.2020 11:02		Date Received:11.1 Sample Depth: 20 ft		:40
Analytical Method: Chloride by EPA 3	00				Prep Method: E30)P	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result F	Ł	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9210	202	mg/kg	11.20.2020 01:20		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H22 Lab Sample Id: 678372-012		Matrix: Date Collected	Soil : 11.18.2020 11:03		Date Received:11. Sample Depth: 22		40
Analytical Method: Chloride by EPA 30	00				Prep Method: E3	00P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 15:42		% Moisture: Basis: We	t Weight	
Seq Number: 3142891					SUB: T104704400	0	
Parameter	Cas Number F	Result RL		Units	Analysis Date	Flag	Dil
Chloride 1	6887-00-6	9670 2	202	mg/kg	11.20.2020 01:26		20

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H24 Lab Sample Id: 678372-013		Matrix: Date Collecte	Soil d: 11.18.2020 11:04		Date Received:11.1 Sample Depth: 24 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	OP	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8060	100	mg/kg	11.20.2020 01:31		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H26 Lab Sample Id: 678372-014		Matrix: Date Collec	Soil ted: 11.18.2020 11:05		Date Received:11.1 Sample Depth: 26 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1610	99.2	mg/kg	11.20.2020 01:48		10

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H28 Lab Sample Id: 678372-015	Matrix Date C	: Soil Collected: 11.18.2020 11:	06	Date Received:11.1 Sample Depth: 28 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142891	Date P	rep: 11.19.2020 15:	42	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas N	umber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 844	49.9	mg/kg	11.20.2020 01:53		5

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H30 Lab Sample Id: 678372-016	Matr Date	ix: Soil Collected: 11.18.2020 11:	06	Date Received:11. Sample Depth: 30		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	00P	
Tech: MAB						
Analyst: MAB	Date	Prep: 11.19.2020 15:	42	% Moisture: Basis: We	t Weight	
Seq Number: 3142891				SUB: T104704400	U	
Parameter Ca	s Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 1688	7-00-6 54	4 9.96	mg/kg	11.20.2020 01:59		1

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H32 Lab Sample Id: 678372-017	Mat Date		oil 1.18.2020 11:09		Date Received: Sample Depth: 3		40
Analytical Method: Chloride by EPA 300					Prep Method: 1	E300P	
Tech:MABAnalyst:MABSeq Number:3142891	Date	e Prep: 1	1.19.2020 15:42		% Moisture: Basis: SUB: T1047044	Wet Weight 400-20-21	
Parameter Cas	Number Result	RL		Units	Analysis Date	e Flag	Dil
Chloride 16887	-00-6 15	70 49.7	,	mg/kg	11.20.2020 02:0	04	5

Certificate of Analytical Results 678372

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: H34 Lab Sample Id: 678372-018			Soil 11.18.2020 11:09		Date Received:11 Sample Depth: 34		10
Analytical Method: Chloride by EPA 300					Prep Method: E	300P	
Tech:MABAnalyst:MABSeq Number:3142891		Date Prep:	11.19.2020 15:42		% Moisture: Basis: W SUB: T10470440	/et Weight 00-20-21	
Parameter C	as Number Re	esult RL		Units	Analysis Date	Flag	Dil
Chloride 168	387-00-6	1060 50	.4	mg/kg	11.20.2020 02:09	9	5

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. ND	Not Detected.		
RL Reporting Limit			
MDL Method Detection Limit SD	L Sample Detection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit MC	QL Method Quantitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit			
NC Non-Calculable			
SMP Client Sample	BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory Con	trol Sample BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sample D	uplicate MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered for t	his compound.		

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Xenco

Environment Testing

🔅 eurofins

QC Summary 678372

CDH Consulting

Zeus CTB

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 (3142889 7715576-1-BLK	00		Matrix: nple Id:	Solid 7715576-2	I-BKS			ep Metho Date Pro D Sample	ep: 11.1	0P 9.2020 5576-1-BSD	
Parameter	MB	Spike	LCS Becult		LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	Result <10.0	Amount 250	Result 258	%Rec 103	Result 257	%Rec 103	90-110	0	Limit 20	mg/kg	Date 11.19.2020 21:46	
Seq Number:	Chloride by EPA 3(3142891	00		Matrix:		DVC			ep Metho Date Pro	ep: 11.1	0P 9.2020 5577-1-BSD	
MB Sample Id:	7715577-1-BLK MB	Spike	LCS Sal		7715577-3 LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	
Parameter	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride	<10.0	250	257	103	257	103	90-110	0	20	mg/kg	11.20.2020 00:47	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 (3142889 678369-005	00		Matrix: nple Id:	Soil 678369-00)5 S			ep Metho Date Pro D Sample	ep: 11.1	0P .9.2020 369-005 SD	
Parameter	Parent Result	Spike	MS Result	MS %Rec	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	299	Amount 199	516	% Rec 109	Result 506	%Rec 106	90-110	2	20	mg/kg	11.19.2020 22:03	
Analytical Method: Seq Number:	Chloride by EPA 3 (3142889	00		Matrix:	Soil			Pr	ep Metho Date Pro		0P 9.2020	
	3142889 678369-015		MS Sar	nple Id:	678369-0			MSI	Date Pro	ep: 11.1 e Id: 678	9.2020 369-015 SD	
Seq Number:	3142889	00 Spike Amount				15 S MSD %Rec	Limits		Date Pro	ep: 11.1	9.2020	Flag
Seq Number: Parent Sample Id:	3142889 678369-015 Parent	Spike	MS Sar MS	nple Id: MS	678369-03 MSD	MSD	Limits 90-110	MSI	Date Pro D Sample RPD	ep: 11.1 e Id: 678	9.2020 369-015 SD Analysis	Flag
Seq Number: Parent Sample Id: Parameter	3142889 678369-015 Parent Result 6670	Spike Amount 199	MS Sar MS Result 6860	mple Id: MS %Rec 95 Matrix:	678369-0 MSD Result 6860	MSD %Rec 95		MSI %RPD 0 Pr	Date Pro D Sample RPD Limit 20 rep Metho Date Pro	ep: 11.1 Id: 678 Units mg/kg od: E30 ep: 11.1	9.2020 369-015 SD Analysis Date 11.19.2020 23:20	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent	Spike Amount 199 00 Spike	MS Sar MS Result 6860 MS Sar MS	nple Id: MS %Rec 95 Matrix: nple Id: MS	678369-0. MSD Result 6860 Soil 678372-00 MSD	MSD %Rec 95		MSI %RPD 0 Pr	Date Pro D Sample RPD Limit 20 Pep Metho Date Pro D Sample RPD	ep: 11.1 Id: 678 Units mg/kg od: E30 ep: 11.1	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis	Flag Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009	Spike Amount 199 00	MS Sar MS Result 6860 MS Sar	nple Id: MS %Rec 95 Matrix: nple Id:	678369-0. MSD Result 6860 Soil 678372-00	MSD %Rec 95	90-110	MSI %RPD 0 Pr MSI	Date Pro D Sample RPD Limit 20 Pep Metho Date Pro D Sample	ep: 11.1 2 Id: 678 Units mg/kg od: E30 ep: 11.1 2 Id: 678	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent Result	Spike Amount 199 00 Spike Amount	MS Sar MS Result 6860 MS Sar MS Result	nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec	678369-0. MSD Result 6860 Soil 678372-00 MSD Result	MSD %Rec 95)9 S MSD %Rec	90-110 Limits	MSI %RPD 0 Pr MSI %RPD	Date Pro Date Pro Date Pro 20 Pep Metho Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro	ep: 11.1 d: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis Date	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent Result 8290 Chloride by EPA 30 3142891	Spike Amount 199 00 Spike Amount 200	MS Sar MS Result 6860 MS Sar MS Result 8480	nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec 95 Matrix:	678369-0. MSD Result 6860 Soil MSD Result 8500 Soil	MSD %Rec 95 09 S MSD %Rec 104	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 0 Pr	Date Pro Date Pro Sample RPD Limit 20 ep Metho Date Pro 20 rep Metho Date Pro	ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis Date 11.20.2020 01:04	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Chloride Analytical Method: Seq Number: Parent Sample Id:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent Result 8290 Chloride by EPA 30	Spike Amount 199 00 Spike Amount 200	MS Sar MS Result 6860 MS Sar MS Result 8480	nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec 95 Matrix: nple Id:	678369-0. MSD Result 6860 Soil 678372-00 MSD Result 8500 Soil 678373-00	MSD %Rec 95 09 S MSD %Rec 104	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 0 Pr MSI	Date Pro Date Pro Sample RPD Limit 20 ep Metho Date Pro 20 rep Metho Date Pro	ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis Date 11.20.2020 01:04 0P 9.2020 373-001 SD	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent Result 8290 Chloride by EPA 30 3142891 678373-001 Parent Result	Spike Amount 199 00 Spike Amount 200 00 Spike Amount	MS Sar MS Result 6860 MS Sar MS Result MS Sar MS Result	nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec	678369-0. MSD Result 6860 Soil 678372-00 MSD Result 8500 Soil 678373-00 MSD Result	MSD %Rec 95 09 S MSD %Rec 104 01 S MSD %Rec	90-110 Limits 90-110 Limits	MSI %RPD 0 Pr MSI %RPD 0 Pr MSI %RPD	Date Pro Date Pro Sample RPD Limit 20 ep Metho Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro Limit 20	ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis Date 11.20.2020 01:04 0P 9.2020 373-001 SD Analysis Date	_
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Chloride Analytical Method: Seq Number: Parent Sample Id:	3142889 678369-015 Parent Result 6670 Chloride by EPA 30 3142891 678372-009 Parent Result 8290 Chloride by EPA 30 3142891 678373-001 Parent	Spike Amount 199 00 Spike Amount 200 00 Spike	MS Sar MS Result 6860 MS Sar MS Result 8480 MS Sar MS	nple Id: MS %Rec 95 Matrix: nple Id: MS %Rec 95 Matrix: nple Id: MS	678369-0. MSD Result 6860 Soil 678372-00 MSD Result 8500 Soil 678373-00 MSD	MSD %Rec 95)9 S MSD %Rec 104	90-110 Limits 90-110	MSI %RPD 0 Pr MSI %RPD 0 Pr MSI	Date Pro Date Pro Date Pro 20 Pep Metho Date Pro Date Pro 20 Pep Metho Date Pro Date Pro Date Pro Date Pro Date Pro Date Pro	ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678 Units mg/kg od: E30 ep: 11.1 e Id: 678	9.2020 369-015 SD Analysis Date 11.19.2020 23:20 0P 9.2020 372-009 SD Analysis Date 11.20.2020 01:04 0P 9.2020 373-001 SD Analysis	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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. Released to Imaging: 2/5/2021 11:24:34 AM

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Final 1.000
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umaraus 4 11/18/20 16:40 2 6	Relinquished by: (Signature) Received by: (Signature) Date/Time Relin	slinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subco ne cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if sucl ill be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These term	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd C Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd C	Soi1 11-18 11:02	HI6 Soil 11-18 10:59 14' 1/	85:01 BI-11	Seil 11-18 10:55 10' 1	H8 Soil 11-18 10:52 6' 1 /	Soil 11-18 10:51 41 1	50:11 11-18	11 Hole 1 Soil 11-18 10:39 0	Identification Matrix Date Time Depth Nu	Yes No/ N/A Total Containers: 18 er of	Yes Nd N/A Correction Factor: -0-2 Co	(Yes No TWM OO7 taine	°C): C + O / S / No Wet Ice: (Yes) No Thermometer ID		Po #:	Rush:	Project Number: Routine Code Code	Zevs CTB Turn Around	120-431-7468 Email: C	Thornton. cc 80229 city,	9446 clermont St	CDH CONSulting	Chris Del Hier	BORATOR
	Relinquished by: (Signature)	. It assigns standard terms ire due to circumstances be inforced unless previously n	Co Cu Fe Pb Mg Mn Mo Ni Se Ag																		ANALYSIS REQUEST	Com					n Antonio,TX (210) 509-3334 06) 794-1296 Craslbad, NM (432) 70 0-2000 West Palm Beach El (564)
Revised Date 022619 Rev. 2019.1	Received by: (Signature)	and conditions	Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V TI U									Sample Comments	TAT starts the day received by the lab, if	Zn Acetate+ NaOH: Zn	NaOH: Na	HCL: HL	H2S04: H2	Nous: NO	MeOH: Me			Deliverables: EDD ADaPT Other:		State of Project:	Work Order Comments	AAAA	Work Order No:

. Released to Imaging: 2/5/2021 11:24:34 AM

Final 1.000
Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: CDH Consulting	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 11.18.2020 04.40.00 PM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 678372	Temperature Measuring device used :						
Sample Recei	pt Checklist Comments						
#1 *Temperature of cooler(s)?	5.8						
#2 *Shipping container in good condition?	Yes						
#3 *Samples received on ice?	Yes						
#4 *Custody Seals intact on shipping container/ cooler?	Νο						
#5 Custody Seals intact on sample bottles?	Νο						
#6*Custody Seals Signed and dated?	Yes						
#7 *Chain of Custody present?	Yes						
#8 Any missing/extra samples?	Νο						
#9 Chain of Custody signed when relinquished/ received?	Yes						
#10 Chain of Custody agrees with sample labels/matrix?	Yes						
#11 Container label(s) legible and intact?	Yes						
#12 Samples in proper container/ bottle?	Yes						
#13 Samples properly preserved?	Yes						
#14 Sample container(s) intact?	Yes						
#15 Sufficient sample amount for indicated test(s)?	Yes						
#16 All samples received within hold time?	Yes						
#17 Subcontract of sample(s)?	Νο						
#18 Water VOC samples have zero headspace?	N/A						

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Massimation
 Date: 11.18.2020

 Martha Castro
 Date: 11.19.2020

 Checklist reviewed by:
 Martha Castro
 Date: 11.19.2020

 Irene Vann
 Date: 11.19.2020

eurofins Environment Testing Xenco

Certificate of Analysis Summary 678369

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:		Date Received in Lab: Wed 11.18.2020 16:40												
Contact:	Chris Del Hierro									Repor	rt Date: 11.2	24.2020 1	7:29	
Project Location:	Thornton, CO 80229	Project Manager: Irene Vann												
		Lab Id:	678369-0	01	678369-00	02	678369-00)3	678369-0	04	678369-0	05	678369-00)6
Analysis 1	Roquested	Field Id:	TH Top S	oil	TH2		TH4		TH6		TH8		TH10	
Analysis Requested De			0- ft		2- ft		4- ft		6- ft		8- ft		10- ft	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	12:13	11.18.2020 1	2:19	11.18.2020 1	2:19	11.18.2020	12:19	11.18.2020	12:20	11.18.2020 1	2:20
Chlorid	e by EPA 300	Extracted:	11.19.2020	14:00	11.19.2020 1	4:00	11.19.2020 1	4:00	11.19.2020	14:00	11.19.2020	14:30	11.19.2020 1	4:30
SUB: T10	4704400-20-21	Analyzed:	11.19.2020 2	21:08	11.19.2020 2	1:14	11.19.2020 2	21:19	11.19.2020 2	21:24	11.19.2020	21:57	11.19.2020 2	22:14
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			10700	201	27.7	10.0	24.4	9.98	25.5	10.0	299	9.92	7150	100

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Project Id:									Date R	eceived	in Lab: Wea	111.18.2	020 16:40	
Contact:	Chris Del Hierro									Repor	rt Date: 11.2	4.2020 1	7:29	
Project Location:	Thornton, CO 80229	Project Manager: Irene Vann												
		Lab Id:	678369-00	07	678369-00	08	678369-00)9	678369-0	10	678369-0	11	678369-01	12
Analysis I	Ronwostod	Field Id:	TH12		TH14		TH16		TH18		TH20		TH22	
Analysis Requested Dept			12- ft		14- ft		16- ft		18- ft		20- ft		22- ft	
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	12:21	11.18.2020	12:21	11.18.2020 1	2:22	11.18.2020	12:22	11.18.2020	12:23	11.18.2020 1	12:24
Chlorid	e by EPA 300	Extracted:	11.19.2020	14:30	11.19.2020	14:30	11.19.2020 1	4:30	11.19.2020	14:30	11.19.2020	14:30	11.19.2020 1	14:30
SUB: T10	4704400-20-21	Analyzed:	11.19.2020 2	22:19	11.19.2020 2	22:25	11.19.2020 2	22:30	11.19.2020 2	22:47	11.19.2020	22:52	11.19.2020 2	22:58
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			13800	99.4	8590	200	9740	199	9790	200	10500	200	9470	202

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Environment Testing

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Certificate of Analysis Summary 678369

CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Date Received in Lab: Wed 11.18.2020 16:40 **Project Id:** Chris Del Hierro **Contact:** Report Date: 11.24.2020 17:29 Thornton, CO 80229 Project Manager: Irene Vann **Project Location:** Lab Id: 678369-013 678369-014 678369-015 678369-016 Field Id: TH24 TH26 TH28 TH30 Analysis Requested 24- ft Depth: 26- ft 28- ft 30- ft Matrix: SOIL SOIL SOIL SOIL Sampled: 11.18.2020 12:25 11.18.2020 12:25 11.18.2020 12:26 11.18.2020 12:26 Chloride by EPA 300 11.19.2020 14:30 11.19.2020 14:30 Extracted: 11.19.2020 14:30 11.19.2020 14:30 SUB: T104704400-20-21 Analyzed: 11.19.2020 23:03 11.19.2020 23:09 11.19.2020 23:14 11.19.2020 23:30 mg/kg RL mg/kg RL mg/kg RL mg/kg RL Units/RL: Chloride 6620 100 7800 99.2 6670 99.2 5500 100

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Project Id:

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Chris Del Hierro **Contact:** Report Date: 11.24.2020 17:28 Project Manager: Irene Vann **Project Location:** Lab Id: 678364-001 678364-002 678364-003 678364-004 678364-005 678364-006 Field Id: SH Top Soil SH2 SH4 SH6 SH8 SH10 Analysis Requested 0- ft 6- ft Depth: 2- ft 4- ft 8- ft 10- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: 11.18.2020 11:37 11.18.2020 11:42 11.18.2020 11:44 11.18.2020 11:45 11.18.2020 11:46 11.18.2020 11:46 Chloride by EPA 300 11.19.2020 14:00 11.19.2020 14:00 11.19.2020 14:00 11.19.2020 14:00 Extracted: 11.19.2020 14:00 11.19.2020 14:00 SUB: T104704400-20-21 11.19.2020 19:13 Analyzed: 11.19.2020 18:57 11.19.2020 19:19 11.19.2020 19:24 11.19.2020 19:29 11.19.2020 19:46 mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL Units/RL: 1240 D Chloride 50.2 173 10.1 19.7 9.98 36.2 10.0 126 10.1 137 10.0

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Contact:	Chris Del Hierro									Repor	rt Date: 11.2	4.2020 1	7:28	
Project Location	n:								Pı	oject M	anager: Iren	e Vann		
		Lab Id:	678364-0	07	678364-0)8	678364-0	09	678364-0	10	678364-0	11	678364-01	12
Anaby	sis Paguastad	Field Id:	SH12		SH14		SH16		SH18		SH20		SH22	
Analysis Requested		Depth:	12- ft	12- ft		14- ft		16- ft		18- ft		20- ft		
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	11.18.2020	11:47	11.18.2020	1:48	11.18.2020	11:49	11.18.2020	11:50	11.18.2020	11:52	11.18.2020 1	11:53
Chle	oride by EPA 300	Extracted:	11.19.2020	14:00	11.19.2020	4:00	11.19.2020	14:00	11.19.2020	14:00	11.19.2020	14:00	11.19.2020 1	14:00
SUB:	T104704400-20-21	Analyzed:	11.19.2020	19:51	11.19.2020	9:57	11.19.2020	20:02	11.19.2020	20:08	11.19.2020	20:13	11.19.2020 2	20:30
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride			136	10.1	248	10.0	327	10.1	271	10.0	229	9.94	174	10.0

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Project Id:

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CDH Consulting, Thornton, CO

Project Name: Zeus CTB

Chris Del Hierro **Contact:** Report Date: 11.24.2020 17:28 Project Manager: Irene Vann **Project Location:** 678364-015 Lab Id: 678364-013 678364-014 678364-016 Field Id: SH24 SH26 SH28 SH30 Analysis Requested 24- ft 26- ft 30- ft Depth: 28- ft Matrix: SOIL SOIL SOIL SOIL Sampled: 11.18.2020 11:53 11.18.2020 11:53 11.18.2020 11:54 11.18.2020 11:54 Chloride by EPA 300 11.19.2020 14:00 11.19.2020 14:00 Extracted: 11.19.2020 14:00 11.19.2020 14:00 SUB: T104704400-20-21 Analyzed: 11.19.2020 20:35 11.19.2020 20:52 11.19.2020 20:57 11.19.2020 21:03 mg/kg RL mg/kg RL mg/kg RL mg/kg RL Units/RL: Chloride 108 9.96 89.1 9.94 225 9.90 237 10.1

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Date Received in Lab: Wed 11.18.2020 16:40

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for

CDH Consulting

Project Manager: Chris Del Hierro

Zeus CTB

11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

11.24.2020Project Manager: Chris Del HierroCDH Consulting9446 Clermont St.Thornton, CO 80229

Reference: Eurofins Xenco, LLC Report No(s): 678364 Zeus CTB Project Address:

Chris Del Hierro:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678364. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678364 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Erica Morales Project Manager

A Small Business and Minority Company

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Sample Cross Reference 678364

CDH Consulting, Thornton, CO

Zeus CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SH Top Soil	S	11.18.2020 11:37	0 ft	678364-001
SH2	S	11.18.2020 11:42	2 ft	678364-002
SH4	S	11.18.2020 11:44	4 ft	678364-003
SH6	S	11.18.2020 11:45	6 ft	678364-004
SH8	S	11.18.2020 11:46	8 ft	678364-005
SH10	S	11.18.2020 11:46	10 ft	678364-006
SH12	S	11.18.2020 11:47	12 ft	678364-007
SH14	S	11.18.2020 11:48	14 ft	678364-008
SH16	S	11.18.2020 11:49	16 ft	678364-009
SH18	S	11.18.2020 11:50	18 ft	678364-010
SH20	S	11.18.2020 11:52	20 ft	678364-011
SH22	S	11.18.2020 11:53	22 ft	678364-012
SH24	S	11.18.2020 11:53	24 ft	678364-013
SH26	S	11.18.2020 11:53	26 ft	678364-014
SH28	S	11.18.2020 11:54	28 ft	678364-015
SH30	S	11.18.2020 11:54	30 ft	678364-016

Environment Testing Xenco

CASE NARRATIVE

Client Name: CDH Consulting Project Name: Zeus CTB

Project ID: Work Order Number(s): 678364 Report Date: *11.24.2020* Date Received: *11.18.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 678364

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:SH Top SoilLab Sample Id:678364-001	Matrix: Date Collec	Soil ted: 11.18.2020 11:37		Date Received:11.1 Sample Depth: 0 ft	8.2020 16	:40
Analytical Method: Chloride by EPA 300				Prep Method: E300	OP	
Tech: MAB Analyst: MAB Sea Number: 3142887	Date Prep:	11.19.2020 14:00		% Moisture: Basis: Wet	Weight	
Seq Number: 3142887				SUB: T104704400-	20-21	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	1240	50.2	mg/kg	11.20.2020 15:39	D	5

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH2 Lab Sample Id: 678364-002	Matrix Date C	: Soil Collected: 11.18.2020 11	:42	Date Received:11.1 Sample Depth: 2 ft	8.2020 16:	40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142887	Date P	rep: 11.19.2020 14	4:00	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Nu	ımber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00)-6 173	10.1	mg/kg	11.19.2020 19:13		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH4 Lab Sample Id: 678364-003	Matrix Date C	: Soil collected: 11.18.2020 11	1:44	Date Received:11. Sample Depth: 4 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	00P	
Tech:MABAnalyst:MABSeq Number:3142887	Date P	rep: 11.19.2020 14	4:00	% Moisture: Basis: We SUB: T104704400	t Weight -20-21	
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00	-6 19.7	9.98	mg/kg	11.19.2020 19:19		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH6 Lab Sample Id: 678364-004	Matrix: Date Collec	Soil cted: 11.18.2020 11:45		Date Received:11.1 Sample Depth: 6 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB				% Moisture:		
Analyst: MAB	Date Prep:	11.19.2020 14:00			Weight	
Seq Number: 3142887				SUB: T104704400-	0	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	36.2	10.0	mg/kg	11.19.2020 19:24		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH8 Lab Sample Id: 678364-005		Matrix: Date Collected	Soil : 11.18.2020 11:46		Date Received:11. Sample Depth: 8 ft		40
Analytical Method: Chloride by EPA 300					Prep Method: E3	00P	
Tech:MABAnalyst:MABSeq Number:3142887		Date Prep:	11.19.2020 14:00		% Moisture: Basis: We SUB: T104704400	et Weight)-20-21	
Parameter Ca	s Number R	esult RL		Units	Analysis Date	Flag	Dil
Chloride 1688	87-00-6	126 10).1	mg/kg	11.19.2020 19:29		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH10 Lab Sample Id: 678364-006			Soil 11.18.2020 11:46		Date Received:11 Sample Depth: 10		40
Analytical Method: Chloride by EPA 300					Prep Method: E	300P	
Tech: MAB Analyst: MAB Sea Number: 3142887	Da	te Prep:	11.19.2020 14:00		% Moisture: Basis: W	et Weight	
					SUB: T10470440		
	Number Result	t RL		Units	Analysis Date	Flag	Dil
Chloride 16887	-00-6	137 10.	0	mg/kg	11.19.2020 19:46	5	1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:SH12Lab Sample Id:678364-007	Matrix Date C	:: Soil Collected: 11.18.2020 11:47		Date Received:11.1 Sample Depth: 12 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142887	Date F	rep: 11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400	t Weight -20-21	
Parameter Cas N	lumber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-	00-6 136	10.1	mg/kg	11.19.2020 19:51		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH14 Lab Sample Id: 678364-008	Matrix: Date Col	Soil lected: 11.18.2020 11:48	Date Received:11.18.2020 16:40 Sample Depth: 14 ft				
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P		
Tech:MABAnalyst:MABSeq Number:3142887	Date Pre	p: 11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400-	Weight -20-21		
Parameter Cas Nur	nber Result	RL	Units	Analysis Date	Flag	Dil	
Chloride 16887-00-	6 248	10.0	mg/kg	11.19.2020 19:57		1	

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH16 Lab Sample Id: 678364-009		Matrix: Date Collected	Soil l: 11.18.2020 11:49	Date Received:11.18.2020 16:40 Sample Depth: 16 ft				
Analytical Method: Chloride by EPA 300					Prep Method: E	2300P		
Tech:MABAnalyst:MABSeq Number:3142887		Date Prep:	11.19.2020 14:00		% Moisture: Basis: v SUB: T1047044	Vet Weight 00-20-21		
Parameter C	as Number 🛛 R	Result RL		Units	Analysis Date	Flag	Dil	
Chloride 168	887-00-6	327 1	0.1	mg/kg	11.19.2020 20:0	2	1	

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH18 Lab Sample Id: 678364-010		Matrix: Date Collec	Soil cted: 11.18.2020 11:50	Date Received:11.18.2020 16:40 Sample Depth: 18 ft				
Analytical Method: Chloride by EPA 30	00				Prep Method: E30	0P		
Tech:MABAnalyst:MABSeq Number:3142887		Date Prep:	11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400-	Weight -20-21		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride 1	6887-00-6	271	10.0	mg/kg	11.19.2020 20:08		1	

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH20 Lab Sample Id: 678364-011	Matrix: Date Collecter	Soil d: 11.18.2020 11:52	Date Received:11.18.2020 16:40 Sample Depth: 20 ft			
Analytical Method: Chloride by EPA 300			Prep Method: E300P			
Tech: MAB						
Analyst: MAB	Date Prep:	11.19.2020 14:00	% Moisture: Basis: Wet We	aight		
Seq Number: 3142887			SUB: T104704400-20-	U		
Parameter Cas Numb	er Result RI	Units	Analysis Date H	lag Dil		
Chloride 16887-00-6	229	9.94 mg/kg	11.19.2020 20:13	1		

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH22 Lab Sample Id: 678364-012	Matrix: Date Collected	Soil d: 11.18.2020 11:53	Date Received:11.18.2020 16:40 Sample Depth: 22 ft				
Analytical Method: Chloride by EPA 300			Prep Method: E300	р			
Tech: MAB							
Analyst: MAB	Date Prep:	11.19.2020 14:00	% Moisture: Basis: Wet V	Veight			
Seq Number: 3142887			SUB: T104704400-2	U			
Parameter Cas Number	er Result RL	Units	Analysis Date	Flag Dil			
Chloride 16887-00-6	174	10.0 mg/kg	11.19.2020 20:30	1			

Certificate of Analytical Results 678364

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH24 Lab Sample Id: 678364-013	Matrix Date C	: Soil collected: 11.18.2020 11:5	3	Date Received:11.1 Sample Depth: 24 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	OP	
Tech: MAB						
Analyst: MAB	Date P	rep: 11.19.2020 14:0)	% Moisture: Basis: We	t Weight	
Seq Number: 3142887				SUB: T104704400	0	
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00)-6 108	9.96	mg/kg	11.19.2020 20:35		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH26 Lab Sample Id: 678364-014		Matrix: Date Collecte	Soil d: 11.18.2020 11:53		Date Received:11.1 Sample Depth: 26 f		40
Analytical Method: Chloride by EPA 30	00				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142887		Date Prep:	11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400	: Weight -20-21	
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil
Chloride	6887-00-6	89.1	9.94	mg/kg	11.19.2020 20:52		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH28 Lab Sample Id: 678364-015	Matrix: Date Co	Soil ollected: 11.18.2020 11:5	4	Date Received:11.1 Sample Depth: 28 f		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date Pr	ep: 11.19.2020 14:0	0	% Moisture: Basis: Wet	t Weight	
Seq Number: 3142887				SUB: T104704400	0	
Parameter Cas Nu	nber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-	6 225	9.90	mg/kg	11.19.2020 20:57		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: SH30 Lab Sample Id: 678364-016	Matrix: Date Collec	Soil cted: 11.18.2020 11:54	Date Received:11.18.2020 16:40 Sample Depth: 30 ft			
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142887	Date Prep:	11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas Num	ber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00-6	237	10.1	mg/kg	11.19.2020 21:03		1

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ble Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Xenco

Environment Testing

🔅 eurofins

QC Summary 678364

CDH Consulting

Zeus CTB

Analytical Method: Seq Number: MB Sample Id:	Chloride by EP 3142887 7715575-1-BLK			Matrix: nple Id:	Solid 7715575-2	I-BKS			ep Metho Date Pro D Sample	ep: 11.1	0P 9.2020 5575-1-BSD	
Parameter	N Res	MB Spike sult Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<1	0.0 250	259	104	257	103	90-110	1	20	mg/kg	11.19.2020 18:46	
Analytical Method:	•	PA 300			0.1			Pr	ep Metho			
Seq Number:	3142887			Matrix:		11 0		MC	Date Pre	1	9.2020	
Parent Sample Id:	678364-001			npie id:	678364-00	115		MSI	1		364-001 SD	
Parameter	Paro Res		MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12	240 248	1500	105	1500	105	90-110	0	20	mg/kg	11.20.2020 15:44	

Analytical Method:	Chloride by EPA 3)0						Pr	ep Metho	od: E30	0P	
Seq Number:	3142887			Matrix:	Soil				Date Pre	ep: 11.1	9.2020	
Parent Sample Id:	678364-011		MS Sar	nple Id:	678364-01	1 S		MS	D Sample	e Id: 678	364-011 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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Project Manage CPM CONSUMING Manage CPM CONSUMING Manage Construction (Manage Construction (M

Determinus Chrvit S Det II	International Control Spectral Consultations Photome./C1(80) 355 0800 Harting unitarial (11) 43 9800 Turn Bauk, PL (63) 1800, 2000 Marting Unitarial (11) 43 9800 Phone CONSULTANG Consultation Co	y OCD: 12/2/	-	_								ID	M			6										<i>Pa</i>
Phoenix/2 (480) 355:000 Attanta.CA. (770) 448-8800 Tampa.FL (873) 820-2000 West Paints B Openative Attanta Company Name: Crymnont St Address: Inn. co B02.29 city, state zip: Inn. co Bouline company Name: Quote #: Quote #: Correction Factor: code Quote #: Thermoniter ID code code Inn. Correction Factor: code code Matrix Date Time Depth visit Soini II-18 II:SQ 20' 1 code Soini II-18 II:SQ 20' 1 code Soini II-18 II:SQ 20' 1 code code Soini II-18 II:SQ 20' 1 code code Soini II-18 II:SQ 20' 1 code code Soini II-18 II:SQ 26' 1 code code Soini II-18 </td <td>Phone X2 (48) 355-000 Attance (T70) 443-800 Tampa FL (81) 802-2000 Word Pain Boach, FL (81) 802-200</td> <td>villes flere and 2</td> <td>Notice: Signature of this document and relinquishm of service. Xenco will be liable only for the cost of s of Xenco. A minimum charge of \$75.00 will be appli</td> <td>Total 200.7 / 6010 200.8 / 602 Circle Method(s) and Metal(s) to</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SH 20</td> <td>Sample Identification</td> <td>Yes</td> <td>R</td> <td>°C):</td> <td></td> <td></td> <td></td> <td>Project Location</td> <td>Project Number:</td> <td>Zeus</td> <td></td> <td>Thorn</td> <td>9446</td> <td>CDH</td> <td>Chris</td>	Phone X2 (48) 355-000 Attance (T70) 443-800 Tampa FL (81) 802-2000 Word Pain Boach, FL (81) 802-200	villes flere and 2	Notice: Signature of this document and relinquishm of service. Xenco will be liable only for the cost of s of Xenco. A minimum charge of \$75.00 will be appli	Total 200.7 / 6010 200.8 / 602 Circle Method(s) and Metal(s) to							SH 20	Sample Identification	Yes	R	°C):				Project Location	Project Number:	Zeus		Thorn	9446	CDH	Chris
(1480) 355-0900 Name: Company Name: Company Name: Company Name: Address: Carlot, State ZIP: Email: CAY is C CPH CONSULT. COM Routine Pres. Rush: AnALY Due Date: AnALY Time Depth SQ 2.01 Time Depth Number of Containers OV SQ 2.01 1 SQ 2.01 Relinquished to kneo, but not analyzed. Th	(460) 365-0000 Mainta CA (770) 448-9800 Tampa FL (613) 820-2000 West Paim Baach, FL (631) 880-0701 Bill to: (if affreen Address: Program State 2-9 City, State ZP: Program Program Email: CANY i S @ CPH CONSULT: COM Program Program State Program Program City, State ZP: Program Program Email: CANY i S @ CPH CONSULT: COM Program Program Program Program Program Prog	Received by:	ent of samples constitutes a va amples and shall not assume a ed to each project and a charge	0: 8 be analyzed TCL		11-18	11-18	11-18	11-18	11-18	11-18	Date Sampled		,	1		Quote #:	Hernandez			1B		co 802	7	eniting	vel Hierro
Inflorent) Inflorent) Inflorent) I	utiliseent Image: Figure (313) 820-2000 West Palm Beach, Fig. (351) 820-2000 West Palm Beach, Fig. (351) 820-2000 West Palm Beach, Fig. (351) 820-2001	(Signature)	id purchase order from client ny responsibility for any losse of \$5 for each sample submit	RCRA 13PPM Texa .P / SPLP 6010: 8RC						22			n Factor: ntainers:			Yes		Due Date:	Rush:	Routine	Turn Around	ç	City, S		Company	Bill to: (if
13) 620-2000 West Palm Be ANALY ANALY CO N ANALY	13) 620-2000 West Paim Beach, FL (561) 689-6701 Program State ANALYSIS REQUEST ANALYSIS REQUEST Deliveration <		company to Xenco, its affiliates is or expenses incurred by the cl ted to Xenco, but not analyzed. T	ıs 11 Al Sb As Ba Be RA Sb As Ba Be Cd		\ \					_									Code		@ CPH	ate ZIP:	ddress:	Name:	different)
	ach, FL (561) 689-6701 Program State Reportin Deliverative SIS REQUEST Fe Pb Mg Mn Mo Fe Pb Mg Mn Mo Ni Se Ag TI U standard tems and condition recomstances beyond the condition recomstances beyond the condition ress previously negotiated. (Signature)		and subcontractors. It assigns lient if such losses are due to ci 'hese terms will be enforced un 1	B Cd Ca Cr Co Cu Cr Co Cu Pb Mn Mc																	ANALY	8				
WWW.Xenco.cor Project: Project: EDD Level III Level III F S: EDD ADD Ceceived by: (Signat		re) Date/Time		i Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471								Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	Zn Acetate+ NaOH: Zn	NaOH: Na	HCI · HI	H2S04: H2	HNO3: HN	None: NO	MeOH: Me	Preservative Codes	other:			vnfields	Comments

Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: CDH Consulting	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient								
Date/ Time Received: 11.18.2020 04.40.00 PM									
Work Order #: 678364	Temperature Measuring device used :								
Sample Rece	ipt Checklist Comments								
#1 *Temperature of cooler(s)?	5.8								
#2 *Shipping container in good condition?	Yes								
#3 *Samples received on ice?	Yes								
#4 *Custody Seals intact on shipping container/ cooler?	Yes								
#5 Custody Seals intact on sample bottles?	Νο								
#6*Custody Seals Signed and dated?	Yes								
#7 *Chain of Custody present?	Yes								
#8 Any missing/extra samples?	Νο								
#9 Chain of Custody signed when relinquished/ received?	Yes								
#10 Chain of Custody agrees with sample labels/matrix?	Yes								
#11 Container label(s) legible and intact?	Yes								
#12 Samples in proper container/ bottle?	Yes								
#13 Samples properly preserved?	Yes								
#14 Sample container(s) intact?	Yes								
#15 Sufficient sample amount for indicated test(s)?	Yes								
#16 All samples received within hold time?	Yes								
#17 Subcontract of sample(s)?	Νο								
#18 Water VOC samples have zero headspace?	N/A								

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Martha Castro
 Date: 11.18.2020

 Martha Castro
 Date: 11.19.2020

 Checklist reviewed by:
 Martha Castro
 Date: 11.19.2020

 Irene Vann
 Date: 11.19.2020

eurofins Environment Testing Xenco

Analytical Report 678369

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for

CDH Consulting

Project Manager: Chris Del Hierro

Zeus CTB

11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.24.2020Project Manager: Chris Del HierroCDH Consulting9446 Clermont St.Thornton, CO 80229

Reference: Eurofins Xenco, LLC Report No(s): **678369 Zeus CTB** Project Address: Thornton, CO 80229

Chris Del Hierro:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678369. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678369 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Erica Morales Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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eurofins Environment Testing Xenco

Sample Cross Reference 678369

CDH Consulting, Thornton, CO

Zeus CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TH Top Soil	S	11.18.2020 12:13	0 ft	678369-001
TH2	S	11.18.2020 12:19	2 ft	678369-002
TH4	S	11.18.2020 12:19	4 ft	678369-003
TH6	S	11.18.2020 12:19	6 ft	678369-004
TH8	S	11.18.2020 12:20	8 ft	678369-005
TH10	S	11.18.2020 12:20	10 ft	678369-006
TH12	S	11.18.2020 12:21	12 ft	678369-007
TH14	S	11.18.2020 12:21	14 ft	678369-008
TH16	S	11.18.2020 12:22	16 ft	678369-009
TH18	S	11.18.2020 12:22	18 ft	678369-010
TH20	S	11.18.2020 12:23	20 ft	678369-011
TH22	S	11.18.2020 12:24	22 ft	678369-012
TH24	S	11.18.2020 12:25	24 ft	678369-013
TH26	S	11.18.2020 12:25	26 ft	678369-014
TH28	S	11.18.2020 12:26	28 ft	678369-015
TH30	S	11.18.2020 12:26	30 ft	678369-016

Environment Testing Xenco

CASE NARRATIVE

Client Name: CDH Consulting Project Name: Zeus CTB

Project ID: Work Order Number(s): 678369 Report Date: *11.24.2020* Date Received: *11.18.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None
Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH Top Soil Lab Sample Id:678369-001		Matrix: Date Collee	Soil cted: 11.18.2020 12:13		Date Received:11.1 Sample Depth: 0 ft	8.2020 16	:40
Analytical Method: Chloride by EPA 3	00				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142887		Date Prep:	11.19.2020 14:00		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10700	201	mg/kg	11.19.2020 21:08		20

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:TH2Lab Sample Id:678369-002		Matrix: Date Collected	Soil : 11.18.2020 12:19		Date Received:11. Sample Depth: 2 f		40
Analytical Method: Chloride by EPA 300					Prep Method: E3	00P	
Tech: MAB					0/ b / •		
Analyst: MAB		Date Prep:	11.19.2020 14:00		% Moisture: Basis: We	et Weight	
Seq Number: 3142887					SUB: T104704400	U	
Parameter Ca	s Number R	esult RL		Units	Analysis Date	Flag	Dil
Chloride 1688	87-00-6	27.7 1	0.0	mg/kg	11.19.2020 21:14		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH4 Lab Sample Id: 678369-003	Matrix Date C	: Soil ollected: 11.18.2020 12:1	9	Date Received:11.1 Sample Depth: 4 ft		:40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech: MAB						
Analyst: MAB	Date P	rep: 11.19.2020 14:0	0	% Moisture: Basis: Wet	t Weight	
Seq Number: 3142887				SUB: T104704400	0	
Parameter Cas Nu	ımber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 24.4	9.98	mg/kg	11.19.2020 21:19		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id:TH6Lab Sample Id:678369-004		Matrix: Date Collected	Soil : 11.18.2020 12:19		Date Received:11.1 Sample Depth: 6 ft		0
Analytical Method: Chloride by EPA 300					Prep Method: E30	0P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	11.19.2020 14:00			Weight	
Seq Number: 3142887					SUB: T104704400	0	
Parameter Ca	s Number R	esult RL		Units	Analysis Date	Flag	Dil
Chloride 1688	37-00-6	25.5 10	0.0	mg/kg	11.19.2020 21:24		1

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH8 Lab Sample Id: 678369-005		Matrix: Date Collected	Soil l: 11.18.2020 12:20		Date Received:11. Sample Depth: 8 ft		40
Analytical Method: Chloride by EPA 300					Prep Method: E30	90P	
Tech: MAB Analyst: MAB		Date Prep:	11.19.2020 14:30		% Moisture:		
Seq Number: 3142889					Basis: We SUB: T104704400	et Weight)-20-21	
Parameter Cas	Number R	esult RL		Units	Analysis Date	Flag	Dil
Chloride 16887	7-00-6	299 9	.92	mg/kg	11.19.2020 21:57		1

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH10 Lab Sample Id: 678369-006		Matrix: Date Collecte	Soil ed: 11.18.2020 12:20	1	Date Received:11.1 Sample Depth: 10 f		40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet	Weight	
Seq Number: 3142889					SUB: T104704400-	0	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7150	100	mg/kg	11.19.2020 22:14		10

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH12 Lab Sample Id: 678369-007		Matrix: Date Colle	Soil cted: 11.18.2020 12:21		Date Received:11.1 Sample Depth: 12 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet	Weight	
Seq Number: 3142889					SUB: T104704400-	U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13800	99.4	mg/kg	11.19.2020 22:19		10

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH14 Lab Sample Id: 678369-008			Soil 11.18.2020 12:21		Date Received: Sample Depth:		40
Analytical Method: Chloride by EPA 300					Prep Method:	E300P	
Tech:MABAnalyst:MABSeq Number:3142889	D	ate Prep:	11.19.2020 14:30		% Moisture: Basis: SUB: T104704	Wet Weight 400-20-21	
Parameter Cas	Number Resul	lt RL		Units	Analysis Dat	e Flag	Dil
Chloride 1688	7-00-6	8590 20	0	mg/kg	11.19.2020 22:	25	20

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH16 Lab Sample Id: 678369-009		Matrix: Date Collected	Soil 11.18.2020 12:22		Date Received: 1 Sample Depth: 1		40
Analytical Method: Chloride by EPA 30	0				Prep Method: H	E300P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: N SUB: T1047044	Wet Weight 100-20-21	
Parameter	Cas Number F	Result RL		Units	Analysis Date	e Flag	Dil
Chloride 10	6887-00-6	9740 1	99	mg/kg	11.19.2020 22:3	30	20

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH18 Lab Sample Id: 678369-010			Soil 11.18.2020 12:22		Date Received: 1 Sample Depth: 1		40
Analytical Method: Chloride by EPA 300					Prep Method: H	E300P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: V SUB: T1047044	Wet Weight 400-20-21	
Parameter Ca	as Number Re	esult RL		Units	Analysis Date	e Flag	Dil
Chloride 168	87-00-6	9790 20	00	mg/kg	11.19.2020 22:4	47	20

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH20 Lab Sample Id: 678369-011		Matrix: Date Collected	Soil : 11.18.2020 12:23		Date Received:11. Sample Depth: 20		40
Analytical Method: Chloride by EPA 30	0				Prep Method: E3	00P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: We SUB: T104704400	et Weight 0-20-21	
Parameter	Cas Number	Result RL		Units	Analysis Date	Flag	Dil
Chloride 1	6887-00-6	10500 2	200	mg/kg	11.19.2020 22:52		20

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH22 Lab Sample Id: 678369-012		Matrix: Date Colle	Soil cted: 11.18.2020 12:24		Date Received:11.1 Sample Depth: 22 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E300)P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9470	202	mg/kg	11.19.2020 22:58		20

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH24 Lab Sample Id: 678369-013		Matrix: Date Collecte	Soil d: 11.18.2020 12:25		Date Received:11.1 Sample Depth: 24 f		40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet	Weight	
Seq Number: 3142889					SUB: T104704400-	0	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6620	100	mg/kg	11.19.2020 23:03		10

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH26 Lab Sample Id: 678369-014		Matrix: Date Colle	Soil cted: 11.18.2020 12:25		Date Received:11.1 Sample Depth: 26 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7800	99.2	mg/kg	11.19.2020 23:09		10

Certificate of Analytical Results 678369

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH28 Lab Sample Id: 678369-015	Matrix Date C	: Soil ollected: 11.18.2020 12:26		Date Received:11.1 Sample Depth: 28 f		40
Analytical Method: Chloride by EPA 300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889	Date P	rep: 11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter Cas N	umber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6 6670	99.2	mg/kg	11.19.2020 23:14		10

CDH Consulting, Thornton, CO Zeus CTB

Sample Id: TH30 Lab Sample Id: 678369-016		Matrix: Date Collec	Soil cted: 11.18.2020 12:26		Date Received:11.1 Sample Depth: 30 ft		:40
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech:MABAnalyst:MABSeq Number:3142889		Date Prep:	11.19.2020 14:30		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5500	100	mg/kg	11.19.2020 23:30		10

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ble Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Xenco

Environment Testing

🔅 eurofins

QC Summary 678369

CDH Consulting

Zeus CTB

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3142887 7715575-1-BLK	600		Matrix: nple Id:	Solid 7715575-2	I-BKS			ep Meth Date Pr D Sample	ep: 11.1	0P 19.2020 5575-1-BSD	
Parameter	MB	Spike	LCS Begylt	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	Result <10.0	Amount 250	Result 259	%Rec 104	Result 257	%Rec 103	90-110	1	Limit 20	mg/kg	Date 11.19.2020 18:46	
Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3142889 7715576-1-BLK	600		Matrix: nple Id:	Solid 7715576-1	I-BKS			ep Meth Date Pr D Sample	ep: 11.1	0P 19.2020 5576-1-BSD	
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	Result <10.0	Amount 250	Result 258	%Rec 103	Result 257	%Rec 103	90-110	0	Limit 20	mg/kg	Date 11.19.2020 21:46	Ting
Chionae	<10.0	250	238	105	231	105	90-110	0	20	mg/kg	11.19.2020 21.40	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3142887 678364-001	600		Matrix: nple Id:	Soil 678364-00	01 S			rep Meth Date Pr D Sample	ep: 11.1	0P 19.2020 364-001 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	Result 1240	Amount 248	Result 1500	%Rec 105	Result 1500	%Rec 105	90-110	0	Limit 20	mg/kg	Date 11.20.2020 15:44	
Analytical Method: Seq Number:	Chloride by EPA 3 3142887 678364-011	600		Matrix:	Soil 678364-01	11 8			ep Meth Date Pr	ep: 11.1	0P 19.2020 364-011 SD	
Parent Sample Id:	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	
Parameter	Result	Amount	Result	%Rec	Result	%Rec	00.440	0	Limit		Date	Flag
Chloride	229	200	438	105	440	106	90-110	0	20	mg/kg	11.19.2020 20:19	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3142889 678369-005	600		Matrix: nple Id:	Soil 678369-00)5 S			ep Meth Date Pr D Sample	ep: 11.1	0P 19.2020 369-005 SD	
Parameter	Parent	Spike	MS Begult	MS % Daa	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	Result 299	Amount 199	Result 516	%Rec 109	Result 506	%Rec 106	90-110	2	20	mg/kg	11.19.2020 22:03	
					Soil			Pı	ep Meth Date Pr		0P 19.2020	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3142889 678369-015	600		Matrix: nple Id:	678369-0	15 S		MS		•	369-015 SD	
Seq Number:	3142889 678369-015 Parent	Spike	MS Sar MS	nple Id: MS	678369-03 MSD	MSD	Limits	MS %RPD	D Sample RPD	-	369-015 SD Analysis	Flag
Seq Number: Parent Sample Id:	3142889 678369-015		MS Sar	nple Id:	678369-0		Limits 90-110		D Sample	e Id: 678	369-015 SD	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.000
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A Sb	
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Final 1.000

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	Andrew Hurrows 4	Belinquished by: (Signature) Receiv	Nonce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		F		Solit	- [Soil	TH20 Soil 11-18	Tab Sample Identification Matrix Sampled	Yes No N/A	Cooler Custody Seale: Yes No NA	Temp Blank: Yes		Sampler's Name: Andrea Hernandez	Project Location	Brolot Number	1000	1 normon co	4446 Clermon	Company Name: CUH CONSUlting	Project Manager: Chvis Del Hierro
	HC I	Received by: (Signature)	itutes a valid purchase order f assume any responsibility fo d a charge of \$5 for each sam	8RCRA 13PPM TCLP / SPLP 6010:		12:26	12:26	17:72	17:75	17:74	12:23	Time Sampled	Total Containers:	Hermometer 1D	No A Wet Ice: Yes			Rush:		Email:		r St		hoenix,AZ (480) 355-0900
	11/18/20	Date/Time	rom client company to Xenco r any losses or expenses inc ple submitted to Xenco, but r	M Texas 11 AI Sb 0: 8RCRA Sb As E		30 1 1		2		22 1 1	2	-	_	ontainer	No			Code	Pres.	SC	1.00	Address:	Company Name:	Atlanta,GA (770) 449-8800 Bill to: (if different)
0.4	16=402	ime Relinquished by: (Signature)	, its affiliates and subcontractors. It assign urred by the client if such losses are due to ot analyzed. These terms will be enforced u	Ba Be Cd Cr Co Cu Fe Pb Mg Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag															ANAL	Call consult.com				Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 CO Bill to: (if different) Gate Gate
			s. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated.	u Fe Pb Mg Mn Mo Ni K Io Ni Se Ag TI U															ANALYSIS REQUEST	Deliverables: EDD	Reporting:Lev	State of Project:	Program: US	leach, FL (561) 689-6701
		Received by: (Signature)		Se Ag SiO2 Na									TAT sta	NaOH: Na Zn Acetate	HCL: HL	H2S04: H2	None: NO	MeOH: Me		ADaPT L	Level III	roject:	Program: UST/PST PRP Brownfields RRC Superfund	www.xenco.com Page Work Order Comments
Revised Date 022619 Rev 2019.1		Date/Time		a Sr TI Sn U V Zn 1631/245.1/7470 / 7471 : Hg								Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	NaOH: Na Zn Acetate+ NaOH: Zn	Ê	H2	NO	Me	Preservative Codes	Other:			RRC Superfun	Page C of

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: CDH Consulting	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11.18.2020 04.40.00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 678369	Temperature Measuring device used :
Sample Recei	ot Checklist Comments
#1 *Temperature of cooler(s)?	5.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	Νο
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

 Checklist completed by:
 Massimation
 Date: 11.18.2020

 Martha Castro
 Date: 11.19.2020

 Checklist reviewed by:
 Martha Castro
 Date: 11.19.2020

 Irene Vann
 Date: 11.19.2020

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FIGURE 1

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Tap Rock Resources

Zeus Spill Initial Excavation Extent and Sample Location Map



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FIGURE 2

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Tap Rock Resources





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TABLE 1

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ZEUS SWD LINE FIELD NOTES

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Sample ID	Date Sampled	Depth (ft. bgs)	PID
		(10.000)	
S1	9/23/2020	24"	0.2
S2	9/23/2020	24"	0.2
S3	9/23/2020	30"	0.2
S4	9/23/2020	48"	0.2
S5	9/23/2020	56"	0.3
S6	9/23/2020	56"	0.3
S7	9/23/2020	56"	0.2
S8	9/23/2020	24"	0.3
S9	9/23/2020	24"	0.3
S10	9/23/2020	24"	0.4
S11	9/23/2020	24"	0.2
S12	9/23/2020	24"	0.5
S13	9/23/2020	24"	0.2
S14	9/23/2020	24"	0.3
S15	9/23/2020	24"	0.2
S16	9/23/2020	24"	0.2
S17	9/23/2020	24"	0.2
S18	9/23/2020	Side wall 24"	0.5
S19	9/23/2020	Side wall 24"	0.4
S20	9/23/2020	Side wall 24"	0.4
S21	9/23/2020	Side wall 24"	0.5
S22	9/23/2020	Side wall 24"	0.5
S23	9/23/2020	BG 1	0.3
S24	9/23/2020	BG 2	0.3

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TABLE 2

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ZEUS SWD LINE ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (in. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table	I Soil Standard (mg/kg) ⁽¹⁾		600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
S-1	9/23/2020	24	2490	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-2	9/23/2020	24	8010	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-3	9/23/2020	30	11000	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-4	9/23/2020	48	7250	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-5	9/23/2020	56	5160	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-6	9/23/2020	56	6230	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-7	9/23/2020	56	6060	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-8	9/23/2020	24	442	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-9	9/23/2020	24	5810	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-10	9/23/2020	24	6210	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-11	9/23/2020	24	6570	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-12	9/23/2020	24	2070	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-13	9/23/2020	24	174	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-14	9/23/2020	24	1250	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-15	9/23/2020	24	4540	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-16	9/23/2020	24	2880	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-17	9/23/2020	24	4450	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-18	9/23/2020	24	6940	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-19	9/23/2020	24	6980	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-20	9/23/2020	24	7390	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-21	9/23/2020	24	407	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-22	9/23/2020	24	5050	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-23	9/23/2020	24	4.82	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-24	9/23/2020	24	4.76	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
PH-001	10/26/2020	68	< 10.1	NA	NA	NA	NA	NA	NA
PH-002	10/26/2020	58	12.6	NA	NA	NA	NA	NA	NA
PH-003	10/26/2020	65	< 10.0	NA	NA	NA	NA	NA	NA
PH-004	10/26/2020	62	< 9.98	NA	NA	NA	NA	NA	NA
PH-005	10/26/2020	50	20.4	NA	NA	NA	NA	NA	NA
PH-006	10/26/2020	60	10.1	NA	NA	NA	NA	NA	NA
PH-007	10/26/2020	65	45.0	NA	NA	NA	NA	NA	NA
PH-008	10/26/2020	60	12.4	NA	NA	NA	NA	NA	NA
PH-009	10/26/2020	79	< 9.98	NA	NA	NA	NA	NA	NA
PH-010	10/26/2020	76	< 10.1	NA	NA	NA	NA	NA	NA
PH-011	10/26/2020	78	10400	NA	NA	NA	NA	NA	NA
PH-012	10/26/2020	128	9540	NA	NA	NA	NA	NA	NA
PH-013	10/26/2020	78	7600	NA	NA	NA	NA	NA	NA
EPH-014	10/26/2020	128	8000	NA	NA	NA	NA	NA	NA

ZEUS SWD LINE ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (in. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table	I Soil Standard (mg/kg) ⁽¹⁾		600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
EPH-015	10/26/2020	63	11700	NA	NA	NA	NA	NA	NA
EPH-016	10/26/2020	79	11100	NA	NA	NA	NA	NA	NA
EPH-017	10/26/2020	68	9220	NA	NA	NA	NA	NA	NA
EPH-018	10/26/2020	76	11000	NA	NA	NA	NA	NA	NA
EPH-019	10/26/2020	62	11200	NA	NA	NA	NA	NA	NA
EPH-020	10/26/2020	84	11100	NA	NA	NA	NA	NA	NA
EPH-021	10/26/2020	68	11100	NA	NA	NA	NA	NA	NA
EPH-022	10/26/2020	88	11300	NA	NA	NA	NA	NA	NA
EPH-023	10/26/2020	73	9320	NA	NA	NA	NA	NA	NA
EPH-024	10/26/2020	78	8390	NA	NA	NA	NA	NA	NA
H Top Soil	11/18/2020	0	18600	NA	NA	NA	NA	NA	NA
H2	11/18/2020	24	7350	NA	NA	NA	NA	NA	NA
H4	11/18/2020	48	3990	NA	NA	NA	NA	NA	NA
H6	11/18/2020	72	2600	NA	NA	NA	NA	NA	NA
H8	11/18/2020	96	3130	NA	NA	NA	NA	NA	NA
H10	11/18/2020	120	3650	NA	NA	NA	NA	NA	NA
H12	11/18/2020	144	7680	NA	NA	NA	NA	NA	NA
H14	11/18/2020	168	6280	NA	NA	NA	NA	NA	NA
H16	11/18/2020	192	8290	NA	NA	NA	NA	NA	NA
H18	11/18/2020	216	9010	NA	NA	NA	NA	NA	NA
H20	11/18/2020	240	9210	NA	NA	NA	NA	NA	NA
H22	11/18/2020	264	9670	NA	NA	NA	NA	NA	NA
H24	11/18/2020	288	8060	NA	NA	NA	NA	NA	NA
H26	11/18/2020	312	1610	NA	NA	NA	NA	NA	NA
H28	11/18/2020	336	844	NA	NA	NA	NA	NA	NA
H30	11/18/2020	360	544	NA	NA	NA	NA	NA	NA
H32	11/18/2020	384	1570	NA	NA	NA	NA	NA	NA
H34	11/18/2020	408	1060	NA	NA	NA	NA	NA	NA
SH Top Soil	11/18/2020	0	1240	NA	NA	NA	NA	NA	NA
SH2	11/18/2020	24	173	NA	NA	NA	NA	NA	NA
SH4	11/18/2020	48	19.7	NA	NA	NA	NA	NA	NA
SH6	11/18/2020	72	36.2	NA	NA	NA	NA	NA	NA
SH8	11/18/2020	96	126	NA	NA	NA	NA	NA	NA
SH10	11/18/2020	120	137	NA	NA	NA	NA	NA	NA
SH12	11/18/2020	144	136	NA	NA	NA	NA	NA	NA
SH14	11/18/2020	168	248	NA	NA	NA	NA	NA	NA
SH16	11/18/2020	192	327	NA	NA	NA	NA	NA	NA
SH18	11/18/2020	216	271	NA	NA	NA	NA	NA	NA

ZEUS SWD LINE ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (in. bgs)	Chlorides (mg/kg)	ТРН ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
SH20	11/18/2020	240	229	NA	NA	NA	NA	NA	NA
SH22	11/18/2020	264	174	NA	NA	NA	NA	NA	NA
SH24	11/18/2020	288	108	NA	NA	NA	NA	NA	NA
SH26	11/18/2020	312	89.1	NA	NA	NA	NA	NA	NA
SH28	11/18/2020	336	225	NA	NA	NA	NA	NA	NA
SH30	11/18/2020	360	237	NA	NA	NA	NA	NA	NA
TH Top Soil	11/18/2020	0	10700	NA	NA	NA	NA	NA	NA
TH2	11/18/2020	24	27.7	NA	NA	NA	NA	NA	NA
TH4	11/18/2020	48	24.4	NA	NA	NA	NA	NA	NA
TH6	11/18/2020	72	25.5	NA	NA	NA	NA	NA	NA
TH8	11/18/2020	96	299	NA	NA	NA	NA	NA	NA
TH10	11/18/2020	120	7150	NA	NA	NA	NA	NA	NA
TH12	11/18/2020	144	13800	NA	NA	NA	NA	NA	NA
TH14	11/18/2020	168	8590	NA	NA	NA	NA	NA	NA
TH16	11/18/2020	192	9740	NA	NA	NA	NA	NA	NA
TH18	11/18/2020	216	9790	NA	NA	NA	NA	NA	NA
TH20	11/18/2020	240	10500	NA	NA	NA	NA	NA	NA
TH22	11/18/2020	264	9470	NA	NA	NA	NA	NA	NA
TH24	11/18/2020	288	6620	NA	NA	NA	NA	NA	NA
TH26	11/18/2020	312	7800	NA	NA	NA	NA	NA	NA
TH28	11/18/2020	336	6670	NA	NA	NA	NA	NA	NA
TH30	11/18/2020	360	5500	NA	NA	NA	NA	NA	NA
WW2	11/18/2020	24	11.3	NA	NA	NA	NA	NA	NA
WW4	11/18/2020	48	363	NA	NA	NA	NA	NA	NA
WW6	11/18/2020	72	501	NA	NA	NA	NA	NA	NA
WW8	11/18/2020	96	786	NA	NA	NA	NA	NA	NA
WW10	11/18/2020	120	255	NA	NA	NA	NA	NA	NA
WW12	11/18/2020	144	1110	NA	NA	NA	NA	NA	NA
WW14	11/18/2020	168	785	NA	NA	NA	NA	NA	NA
WW16	11/18/2020	192	5250	NA	NA	NA	NA	NA	NA
WW18	11/18/2020	216	8660	NA	NA	NA	NA	NA	NA
WW20	11/18/2020	240	9690	NA	NA	NA	NA	NA	NA
WW22	11/18/2020	264	9340	NA	NA	NA	NA	NA	NA
WW24	11/18/2020	288	11500	NA	NA	NA	NA	NA	NA
WW26	11/18/2020	312	5990	NA	NA	NA	NA	NA	NA
WW28	11/18/2020	336	198	NA	NA	NA	NA	NA	NA
WW30	11/18/2020	360	704	NA	NA	NA	NA	NA	NA
WW32	11/18/2020	384	516	NA	NA	NA	NA	NA	NA

Sample ID	Date Sampled	Depth (in. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table	NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			100 mg/kg	50 mg/kg	10 mg/kg			
WW34	11/18/2020	408	336	NA	NA	NA	NA	NA	NA
WW36	11/18/2020	432	322	NA	NA	NA	NA	NA	NA
WW38	11/18/2020	456	198	NA	NA	NA	NA	NA	NA
WW40	11/18/2020	480	802	NA	NA	NA	NA	NA	NA
WW42	11/18/2020	504	159	NA	NA	NA	NA	NA	NA
WW44	11/18/2020	528	258	NA	NA	NA	NA	NA	NA
WW46	11/18/2020	552	179	NA	NA	NA	NA	NA	NA
WW48	11/18/2020	576	156	NA	NA	NA	NA	NA	NA
WW50	11/18/2020	600	199	NA	NA	NA	NA	NA	NA
WW52	11/18/2020	624	206	NA	NA	NA	NA	NA	NA
WW54	11/18/2020	648	151	NA	NA	NA	NA	NA	NA
WW55	11/18/2020	660	163	NA	NA	NA	NA	NA	NA
WW Top Soil	11/18/2020	0	7820	NA	NA	NA	NA	NA	NA

Notes:

1. Standards for soil are taken from 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 51 - 100 ft

2. TPH - total volatile and extractable hydrocarbons. Value calculated by adding GRO, DRO and MRO concentrations

BOLD = Result above closure criteria

NMOCD = New Mexico Oil Conservation Divison

(<) = Analytical result is less than the indicated laboratory reporting limit

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total volatile petroleum hydrocarbons - diesel range organics

MRO = Total volatile petroleum hydrocarbons - motor oil/lube range organics

BTEX = Total benzene, toluene, ethlybenzene, and total xylenes

mg/kg = Milligrams per kilogram

in. = inch

ft = Feet

bgs = Below ground surface

NA = Constituent not analyzed

4

COMMENTS

Action 11396

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

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

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

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

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

COMMENTS

Operator:		OGRID:	Action Number:	Action Type:				
TAP ROCK O	PERATING, LLC 523 Park Point Drive	372043	11396	C-141				
Suite 200 Golden, CO80401								
Created By	Comment	nment Date						
ceads	Remediation Plan conditionally approved. Deferral request denied. 02.			05/2021				

CONDITIONS

Action 11396

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District I 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

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:				
	TAP ROCK OPERATING, LLC 523 Park Point Drive	372043	11396	C-141				
Suite 200	Golden, CO80401							
-								
OCD	Condition							
Reviewer								
ceads	In areas where total depth of excavation are less than 4' and exceed NMOCD reclamation standards and areas where confirmation and pothole samples collected from depths greater than 4' exceed applicable Table I Closure Criteria, a liner will need to be installed.							
ceads	s Additional sidewall samples must be collected to acheive horizontal delineation for all sides of the excavaiton. Sidewall samples collected within the top 4 feet of excavation should meet reclamation standards.							
ceads	Please complete page 5 of C-141 form in next submittal.							

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