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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Fasken Oil and Ranch, Ltd			Ltd	OGRID	
Contact Name: Aaron Pachlhofer				Contact Te	elephone: 432-687-1777
Contact email: aaronp@forl.com				Incident #	(assigned by OCD)
Contact mail	ing address:	6101 Holiday Hill	Road, Midland,	TX 79707	
			Location	of Release So	ource
Latitude 33.027930° Longitude -103.167549°					
			(NAD 83 in dec	cimal degrees to 5 decim	
Site Name De	enton SWD	Trunk Line		Site Type:	SWD trunkline
Date Release	Discovered	11/4/18		API# (if app	licable)
Unit Letter	Section	Township	Range	Coun	ity
Cumfo ao Ourman	Ctoto	□ Fodoral □ Tri	ihal V Driveta (Name: Darr Angell)
Surface Owner	. State	rederal III	ibai 🔼 Private (1	vame: <u>Darr Angeu</u>)
			Nature and	l Volume of F	Release
	Material	l(s) Released (Select all	that apply and attach	calculations or specific	justification for the volumes provided below)
Crude Oil		Volume Release		carculations of specific	Volume Recovered (bbls)
X Produced	Water	Volume Released (bbls) 50			Volume Recovered (bbls) 30
		Is the concentrate	ion of total dissol	ved solids (TDS)	Yes No
			water >10,000 mg	:/1?	W.L. D. 1411)
	Condensate Volume Released (bbls)				Volume Recovered (bbls)
	Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)
Cause of Release: Relief pumper for Legacy Operating discovered leak. Fasken foreman Neal Weeks went to location and found leak inside Faskens tinhorn that ties Legacy Denton "A" transfer line into SWD transfer line. A vacuum truck emptied 2					
side by side tinhorns and then Weeks shut valve to main swd line to isolate leak. Vacuum truck picked up water from ground.					
Leak area. Next day (11/5/18) backhoe and gang dug out leak and found 4" drop in meter leaking. Bolts holding meter were					
eaten up and most were gone. There is a 4" valve coming from main line and 4" meter with no check valve found. Plan to					
replace valve, remove meter and add check valve.					

State of New Mexico Oil Conservation Division

Incident ID	
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Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	Spill over 25 barrels of produced water		
X Yes □ No			
If YES, was immediate no	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?	
Aaron Pachlhofer called OMST. Jim Griswold was		otify of the leak. Pachlhofer spoke to Olivia approximately at 8:11	
	Initial Ro	esponse	
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury	
X The source of the rele	ease has heen stonned		
	s been secured to protect human health and	the environment.	
_		likes, absorbent pads, or other containment devices.	
X All free liquids and re	ecoverable materials have been removed an	d managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
Per 19 15 29 8 B (4) NM	AC the responsible party may commence to	emediation immediately after discovery of a release. If remediation	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: <u>Aaron Pac</u>	chlhofer	Title: Environmental Coordinator	
Signature:		Date: 11/8/2018	
email: aaronp@forl.com		Telephone: 432-687-1777	
OCD Only			
Received by:		Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 20 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>70</u> ((ft bgs)
Did this release impact groundwater or surface water?	☐Yes X	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 well. X Field data	ls.	

Cha	Characterization Report Checklist: Each of the following items must be included in the report.			
X	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.			
	Field data			
\mathbf{X}	Data table of soil contaminant concentration data			
\mathbf{X}	Depth to water determination			
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
	Boring or excavation logs			
	Photographs including date and GIS information			
X	Topographic/Aerial maps			
X	Laboratory data including chain of custody			

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

	_
nereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and gulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ablic 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 liled to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In dition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws ad/or regulations.	
rinted Name: Aaron PachlhoferTitle: Environmental Coordinator	
gnature:Date: <u>9/10/19</u>	
nail: aaronp@forl.com Telephone: 432-687-1777	
CD Only	_
eceived by: Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: 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 con-	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human healt	n, 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.				
Printed Name: <u>Aaron Pachlhofer</u>	Title: Environmental Coordinator			
Signature:	Date: 11/8/18			
email: aaronp@forl.com	Telephone: 432-687-1777			
OCD Only				
Received by:	Date:			
Approved	Approval			
Signature:	Date:			

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

	☐ A scaled site and sampling diagram as described in 19.15.29	11 NMAC
Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and aperform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and revegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Aaron Pachlhofer		of the liner integrity if applicable (Note: appropriate OCD District office
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and revegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Aaron Pachlhofer	☐ Laboratory analyses of final sampling (Note: appropriate OE	C District office must be notified 2 days prior to final sampling)
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and revegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Aaron Pachlhofer	☐ Description of remediation activities	
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Date:	and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of their operations have failed to adequately investigate and remediat health or the environment. In addition, OCD acceptance of a C-14 any other federal, state, or local laws and/or regulations. The response vegetate the impacted surface area to the conditions that existed presents and the conditions of the conditions are required to report and or regulations.	in release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability should be contamination that pose a threat to groundwater, surface water, human a report does not relieve the operator of responsibility for compliance with nsible party acknowledges they must substantially restore, reclaim, and rejor to the release or their final land use in accordance with 19.15.29.13
Pate: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	Printed Name: Aaron Pachlhofer	Title: Environmental Coordinator
OCD Only Received by:	Signature:	Date: <u>11/8/18</u>
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	email: <u>aaronp@forl.com</u>	Telephone: 432-687-1777
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:		
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remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:	OCD Only	
		Date:
Printed Name: Title:	Received by: Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible
	Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.



6101 Holiday Hill Road Midland, TX 79707 (432) 687-1777 (432) 687-1570 (FAX)

September 9, 2019

Dylan Rose-Coss Environmental Specialist Oi Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Work Plan: 1RP-5271– Denton Trunkline Spill Workplan

Ms. Rose-Coss,

On November 4, 2018 a spill occurred at the Fasken Oil and Ranch (Fasken) Denton Trunkline when an unused meter began leaking due to corrosion. The well is location at battery is located at 33.031060°, - 103.180635°. During the spill, an estimated 50 barrels of produced water was released and no crude oil was released. 30 barrels of produced water were recovered according to Fasken operations personnel. The spill occurred in a pasture that is not an active well pad or maintained production site.

Delineation Sampling

On January 30, 2019, six trenches were opened with a backhoe and two samples were collected from each trench: surface and one foot below surface. Laboratory analysis of the samples shows that chloride concentrations are high in the surface samples at TT-1, TT-3, and TT-5, and TT-6. All other sample concentrations are below the NMAC 19.15.29.12, Table 1 concentration of 10,000 mg/kg chloride. A site plan showing these sample locations is included as an attachment.

On July 18, 2019, four borings were advanced with a hollow stem auger mobile drilling machine. Samples were continuously collected by hollow stem auger in two-foot increments. Four samples from each boring were submitted for laboratory analysis, except B-2 where six samples were collected. The maximum concentration for these samples was 4,200 mg/kg chloride in B-2 at 0-2' feet. All other concentrations in all borings were lower, showing a consistent trend of decreasing concentration with depth. Except for B-2, the 20-22' feet sample from each boring was well below 600 mg/kg chloride. At B-2 a concentration of 1,710 was observed at 25 to 27' when the boring was terminated. In accordance with NMAC 19.15.29.11(A)(5)(c) further delineation to 600 mg/kg is not needed. A site plan showing these sample locations is included as an attachment.

A summary table and laboratory reports are included.

Potential Receptors

A network of monitoring wells belonging to Plains Pipeline are nearby the site and one monitoring well exists within the spill area. Fasken contacted Camille Bryant with Plains, who responded that the depth to water is 70 to 75 feet below ground surface. The depth to water is measured at least twice a year.

Mrs. Bryant did not provide detailed tables, but OCD may wish to contact her if additional detailed information is needed. Please note that these wells are installed for a crude oil pipeline release and there is no potable water.

Other potential receptors: There is no nearby surface water. There are no homes or occupied structures within 1 mile of the release. There are no other potential receptors such as a lakebed, sinkhole, playa lake, continually flowing watercourse, spring, fresh water well, or subsurface mine that have been identified within the distances specified on form C-141.

According to NMAC 19.15.29.12, Table 1, the chloride limit is 10,000 mg/kg

Work Plan

The spill area is approximately 11,100 square feet. The spill is adjacent to a previously remediated spill, 1RP-475 (this spill also has 1RP-4169 assigned to it). Fasken proposes a similar work plan:

- 1. Excavate soil to surface of caliche.
- 2. Collect confirmation side wall and excavation bottom samples for laboratory analysis as needed. All samples will be field screened prior to laboratory analysis.
- 3. Additional excavation as needed after sample collect6ion and analysis
- 4. Dispose of excavated soil at properly permitted landfill.
- 5. Backfill excavation with new soil sourced from land owner.
- 6. Re-seed with land owner specified seed mix.

Please note that the Plains monitoring well will be left in place. As much soil as possible will be removed without damaging the well.

Variances Requested:

Variance 1 Due to the depth to caliche, a variance is requested from conducting a four foot deep excavation. The soil column above the caliche is the root zone that 19.15.29.13(D)(1) is intended to protect. There is no root zone below the caliche at this site. Laboratory analytical data included that is an attachment supports this variance.

Variance 2 If needed based on field screening and laboratory sample analysis, Fasken requests to install a 20 mil plastic liner. The liner will only be installed if excavation bottom samples chloride concentrations remain too high to protect the new backfilled soil that will replace the excavated soil.

If there are any questions or comments, please do not hesitate to contact Aaron Pachlhofer at the letterhead address or 432-687-1777 or aaronp@forl.com.

Thank You,

Aaron Pachlhofer, P.G. Environmental Coordinator

Depth to groundwater at 1RP-5271

Please note that the following information was submitted to Fasken Oil and Ranch for nearby project 1RP-5270 by environmental consulting company SESI in Hobbs. Please note that most of the wells noted are within ½ mile of 1RP-5271. In particular, MW-16R is within the spill area of 1RP-5271. This monitoring well was installed at the direction of Plains All American Pipeline for a previous release that Plains All American is responsible for. David Boyer at SESI gauged this well on September 30, 2019. As needed, the full gauging history of this well might be available if it is needed by the OCD.

Fasken is also including an email from Camille Bryant at Plains All American Pipeline in reference to the depth to water for all Plains All American

 From:
 David Boyer

 To:
 Aaron Pachlhofer

 Cc:
 Rebecca Pons

Subject: Fasken SWD #2 information

Date:Tuesday, October 08, 2019 6:39:05 PMAttachments:Fasken SWD #2 Nearby Water Well Map.pdf

Aaron,

Attached is a map of nearby wells with depth to water and distance from SWD #2.

Some dates are greater than 30 years old, but are include to show water levels were greater than 50 feet at that time. Water levels in the Lea County ground water basin are declining everywhere to pumping, mainly for agriculture. These have been documented historically by numerous USGS and NM State Engineer Studies.

Monitor Well MW-16R is located at site of your Trunkline release and was sampled by me on Monday September 30, 2019

			Distance
Well ID	Date	DTW (ft.)	(miles)
L 01739	03/1953	55	0.43
L 02268	06/1953	55	0.31
L 02317	08/1953	65	0.48
L 13485	12/2013	103	0.27
L 14299	08/2017	84	0.40
MW-16R	09/2019	67.85	0.82

Also attached is a map composite of all the sampling locations at the SWD #2.

Rebecca should be able to help you if you have additional questions.

David G. Boyer, P.G.

Hydrogeologist

Safety & Environmental Solutions, Inc.

703 East Clinton St.

P.O. Box 1613

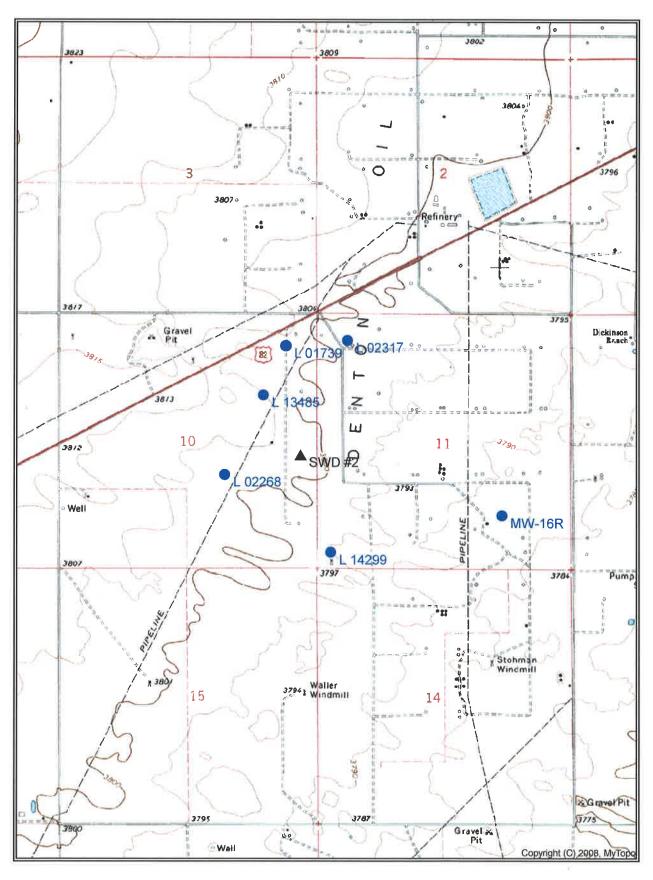
Hobbs, New Mexico 88241

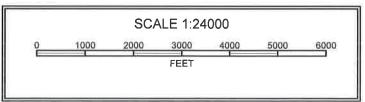
(575) 397-0510 (office)

(575) 393-4388 (fax)

(575) 390-7067 (cell)

dgboyer@sesi-nm.com





From: Camille J Bryant
To: Aaron Pachlhofer

Subject: DTW

Date: Wednesday, November 07, 2018 4:22:50 PM

Aaron,

As per our discussion this morning regarding depth to groundwater in Section 2, T15S, R37E in Lea County, New Mexico, the depth to water in this area should approximately 70 to 75 feet bgs. This depth is based on monitor wells in the area.

Thanks,

Camílle J. Bryant

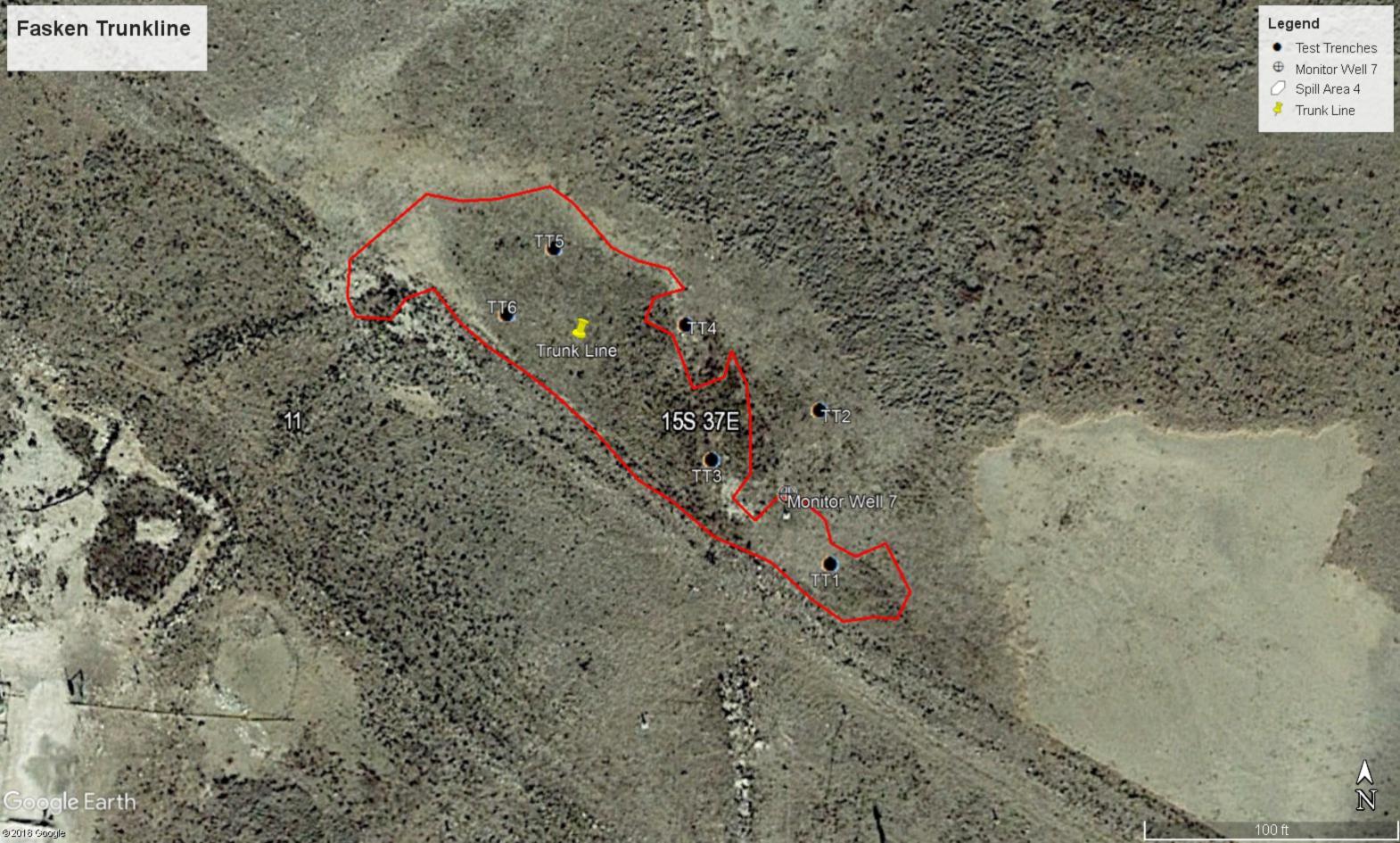
Remediation Supervisor
Plains All American
505 N. Big Spring, Suite 600
Midland, Texas 79701
Office: 432.221.7924

Attention:

Cell: 575.441.1099

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.





1RP-5271 - Denton Trunkline Spill

Location	Date	CI- (mg/kg)
TT-1 Surface	1/30/2019	52000
TT-1 1'	1/30/2019	6130
TT-2 Surface	1/30/2019	144
TT-2 1'	1/30/2019	3560
TT-3 Surface	1/30/2019	40400
TT-3 1'	1/30/2019	2200
TT-4 Surface	1/30/2019	128
TT-4 1'	1/30/2019	1230
TT-5 Surface	1/30/2019	13500
TT-5 1'	1/30/2019	6400
TT-6 Surface	1/30/2019	40800
TT-6 1'	1/30/2019	3560
B-1 5-7'	7/24/2019	1390
B-1 10-12'	7/24/2019	1100
B-1 15-17'	7/24/2019	832
B-1 20-22	7/24/2019	176
B-2 0-2'	7/24/2019	4200
B-2 5-7'	7/24/2019	2880
B-2 10-12'	7/24/2019	2040
B-2 15-17'	7/24/2019	1250
B-2 22-24'	7/24/2019	2200
B-2 25-27'	7/24/2019	1710
B-3 0-2'	7/24/2019	1890
B-3 10-12'	7/24/2019	560
B-3 15-17'	7/24/2019	256
B-3 20-22'	7/24/2019	272
B-4 0-2'	7/24/2019	2720
B-4 5-7'	7/24/2019	1310
B-4 10-12'	7/24/2019	64
B-4 15-17'	7/24/2019	32
B-4 20-22'	7/24/2019	16



February 04, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/30/2019

Reported: 02/04/2019

Project Name: TRUNK LINE
Project Number: FAS-19-002

Project Location: NONE GIVEN

Sampling Date: 01/30/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT 1 - SURFACE (H900345-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52000	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 1 - 1' (H900345-02)

Chloride, SM4500Cl-B	nloride, SM4500Cl-B mg/kg			d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6130	16.0	02/02/2019	ND	416	104	400	3.77		

Sample ID: TT 2 - SURFACE (H900345-03)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 2 - 1' (H900345-04)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	02/02/2019	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/30/2019

Reported: 02/04/2019

Project Name: TRUNK LINE
Project Number: FAS-19-002
Project Location: NONE GIVEN

40400

16.0

Sampling Date: 01/30/2019

Sampling Type: Soil

104

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

400

3.77

Sample ID: TT 3 - SURFACE (H900345-05)

Chloride, SM4500CI-B	mg/kg		Analyzo	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

416

02/02/2019

Sample ID: TT 3 - 1' (H900345-06)

Chloride

Chloride, SM4500Cl-B	4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 4 - SURFACE (H900345-07)

Chloride, SM4500Cl-B	B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 4 - 1' (H900345-08)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/02/2019	ND	416	104	400	3.77	

Sample ID: TT 5 - SURFACE (H900345-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13500	16.0	02/02/2019	ND	416	104	400	3.77	

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/30/2019 Sampling Date:

01/30/2019

Reported:

02/04/2019

Sampling Type:

Soil

Project Name: Project Number: TRUNK LINE FAS-19-002

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

Analyte

Analyte

Analyte

NONE GIVEN

Sample ID: TT 5 - 1' (H900345-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Analyzed

Method Blank

BS

% Recovery

True Value QC RPD

Qualifier

Chloride

Result 6400

02/02/2019 16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

ND

416

104

400

Sample ID: TT 6 - SURFACE (H900345-11)

Chloride, SM4500Cl-B

Analyzed By: AC

BS

True Value QC RPD

3.77

Qualifier

Chloride

Result 40800

Result

3560

16.0 02/02/2019 Method Blank ND

416

BS

416

% Recovery 104

104

400

3.77

Chloride

Sample ID: TT 6 - 1' (H900345-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

02/02/2019

Method Blank

ND

% Recovery

True Value QC

400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

company name: Safety and Environmental Solutions	olutions	B)LL 1/0	ANALYSIS REQUEST
Project Manager: Bob Allen	7	P.O. #:	
Address: 703 East Clinton, PO Box 1613	0	Company: Same	
City: Hobbs State: NM	Zīp: 88240 A	Attn:	
Phone #: 575 397-0510 Fax #: 575 3	575 393-4388 A	Address:	
Project #: Fas - 19-003 Project Owner:		City:	
Project Name: Trunkline	8	State: Zip:	
Project Location:	7	Phone #:	
Sampler Name: Bob aller	71	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	30
	ATER		.0010
Lab I.D. Sample I.D.	ONTAIN OUNDW STEWA L	HER: D/BASE / COOL HER:	CHL
1771- Surface	# GI W SG	> IC	
TT) 11		1-30 1210	
3 TT 3 - Surface		E 161 08-1	
177-20 110		1-30 1217	
5 T-3 Surface		1-30 1218	
6 TT-3- 11		(861 08-1	
1 ++ 4 Supers		1-30 1247	
8 ++4)1		0Se/ 08-1	
9 ++ 5 Surface		1, 1-30 1253	
1017 S 11	8	X 1-30 1255	×
PLEASE NOTE: Liability and Damagos. Cardinal's liability and clearly sociative representations of the second sociation of the	ny claim arising whether based in contract or	r tort, shall be limited to the amount paid by the client for the	The standing the standing to t

Delivered By: (Circle one)
Sampler - UPS - Bus - Other: 5.5 / #97

Sample Condition
Cool Intact
Yes Yes
No No

HECKED BY:

Relinguished By and B

Date/30/19

Received By:

Relinguished By:

Date JX/19

use, or loss of profits incurred by client, its subsidiaries,

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:

Compail! Ital & Color Ses - MM. Com

service. In no event shall Cardinal be liable



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Leter 227

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

Carety and Environmental Columnia		ייין ביין ניי			ANALIGIO ALCOLO	
Project Manager: Bob Allen	P.(P.O. #:	٠		- 1	
Address: 703 East Clinton, PO Box 1613	Co	Company: Same				
City: Hobbs State: NM Zip: 88240	40 Attn:	H.				
Phone #: 575 397-0510 Fax #: 575 393-4388		Address:				1.0
Project #: FAS- 9-00 Project Owner:	City:	y:				
Project Name: Trunkline	Sta	State: Zip:	2_			
Project Location:	Ph	Phone #:	le	S		
Sampler Name: 1305 CV 100	Fa	Fax #:) (
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	6			
H900345 CG)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER:	2	m .		3	
tt 6 Surface	K		X BSCI			
12 76 11	X	× 1.30	1.05			
				*		
		*				
PLEASE NOTE: Lushify and Damages. Cardinat's lability and client's exclusive remedy for any data arising whether based in contract or tort, shall be firsted to the amount paid by the client for the analyses. Marting and Cardinat's lability and client's exclusive remedy for any data arising whether based in contract or tort, shall be firsted to the amount paid by the client for the analyses. Marting and contracts for rendering and any other causes whatsoever shall be deemed within a data controlled within 30 daws after completion of the analyses. Marting and resolved by Cardinat's lability and client's exclusive remedy for any white and received within 30 days are shall be deemed to the same that the same than the same than the same that the same than the same th	hether based in contract or tor	t, shall be limited to the amount paid by	the client for the			

Relinquished By:

Sampler - UPS - Bus - Other: 3.50

7年

Cool Intact
Yes 1 Yes

Delivered By: (Circle One)

16:53

Pate 3/9

Received By:

emili I zarkgoza @ Sesi-MM. Com

Add'l Phone #: Add'l Fax #:

Relinquished By:

In no event shall Cardinal be flable for incidental or consequental damages, including without firritation, business interruptions, loss of use, or loss of profits incurred by cfernt, its subsidiaries, sufficies or successors, arising out of or related to the performance of services hereunder by Cardinaly-regardless of whether such daim is based upon any of the above stated reasons or otherwise.

| Phone Result: | Fax Result: | Fax Result: | Fax Result: | Fax Result: | REMIARKS: | REMIARKS: |



July 26, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: FAS-19-002

Enclosed are the results of analyses for samples received by the laboratory on 07/19/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B - 1, TL, 0-2'	H902500-01	Soil	18-Jul-19 12:03	19-Jul-19 16:40
B - 1, TL, 5-7'	H902500-02	Soil	18-Jul-19 12:08	19-Jul-19 16:40
B - 1, TL, 10-12'	H902500-03	Soil	18-Jul-19 12:13	19-Jul-19 16:40
B - 1, TL, 15-17'	H902500-04	Soil	18-Jul-19 12:18	19-Jul-19 16:40
B - 1, TL, 20-22'	H902500-05	Soil	18-Jul-19 12:20	19-Jul-19 16:40
B - 2, TL, 0-2'	H902500-06	Soil	18-Jul-19 12:58	19-Jul-19 16:40
B - 2, TL, 5-7'	H902500-07	Soil	18-Jul-19 13:02	19-Jul-19 16:40
B - 2, TL, 10-12'	H902500-08	Soil	18-Jul-19 13:07	19-Jul-19 16:40
B - 2, TL, 15-17'	H902500-09	Soil	18-Jul-19 13:11	19-Jul-19 16:40
B - 2, TL, 22-24'	H902500-10	Soil	18-Jul-19 13:22	19-Jul-19 16:40
B - 2, TL, 25-27'	H902500-11	Soil	18-Jul-19 13:30	19-Jul-19 16:40
B - 3, TL, 0-2'	H902500-12	Soil	18-Jul-19 13:55	19-Jul-19 16:40
B - 3, TL, 10-12'	H902500-13	Soil	18-Jul-19 14:10	19-Jul-19 16:40
B - 3, TL, 15-17'	H902500-14	Soil	18-Jul-19 14:20	19-Jul-19 16:40
B - 3, TL, 20-22'	H902500-15	Soil	18-Jul-19 14:25	19-Jul-19 16:40
B - 4, TL, 0-2'	H902500-16	Soil	18-Jul-19 15:05	19-Jul-19 16:40
B - 4, TL, 5-7'	H902500-17	Soil	18-Jul-19 15:11	19-Jul-19 16:40
B - 4, TL, 10-12'	H902500-18	Soil	18-Jul-19 15:14	19-Jul-19 16:40
B - 4, TL, 15-17'	H902500-19	Soil	18-Jul-19 15:19	19-Jul-19 16:40
B - 4, TL, 20-22'	H902500-20	Soil	18-Jul-19 15:25	19-Jul-19 16:40

Client added chloride to the samples that were originally on hold, -09, -10 and -11. This is the revised report and will replace the one sent on 07/24/19.

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

Reported: 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 1, TL, 0-2' H902500-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	2080		16.0	mg/kg	4	9072217	AC	23-Jul-19	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported: 26-Jul-19 12:05

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 1, TL, 5-7' H902500-02 (Soil)

Analyte Result MDL Li	ting it Units Dilution Batch Analyst Analyzed Method Notes
-----------------------	---

Cardinal Laboratories

Inorganic Compounds

Chloride 1390 16.0 mg/kg 4 9072306 AC 23-Jul-19 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Reported:

26-Jul-19 12:05



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton

Hobbs NM, 88240

Project: FAS-19-002

Project Number: NONE GIVEN

Fax To: (575) 393-4388

Project Manager: Bob Allen

B-1, TL, 10-12'

H902500-03 (Soil)

Reporting Limit Result MDL Units Dilution Analyst Analyzed Method Notes Analyte Batch

Cardinal Laboratories

Inorganic Compounds

1100 16.0 9072306 23-Jul-19 4500-Cl-B Chloride mg/kg

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported:

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 1, TL, 15-17' H902500-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

 Inorganic Compounds
 B32
 16.0
 mg/kg
 4
 9072306
 AC
 23-Jul-19
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported: 26-Jul-19 12:05

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 1, TL, 20-22' H902500-05 (Soil)

Reporting Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method N	lotes
---	-------

Cardinal Laboratories

Inorganic Compounds

Chloride 176 16.0 mg/kg 4 9072306 AC 23-Jul-19 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

Reported: 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 2, TL, 0-2' H902500-06 (Soil)

Analyte Result Mi	Reporting DL Limit Units	Dilution Batch Analyst	Analyzed Method Notes
-------------------	-----------------------------	------------------------	-----------------------

Cardinal Laboratories

 Inorganic Compounds

 Chloride
 4200
 16.0
 mg/kg
 4
 9072306
 AC
 23-Jul-19
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

B-2, TL, 5-7' H902500-07 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Reporting							

Cardinal Laboratories

Inorganic Compounds 2880 9072306 23-Jul-19 4500-Cl-B Chloride 16.0 mg/kg

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported:

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

EN 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 2, TL, 10-12' H902500-08 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 2040 16.0 mg/kg 4 9072306 AC 23-Jul-19 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported: 26-Jul-19 12:05

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN
Project Manager: Bob Allen

lanagen. BOD Allen

Fax To: (575) 393-4388

B - 2, TL, 15-17' H902500-09 (Soil)

Cardinal Laboratories

 Inorganic Compounds

 Chloride
 1250
 16.0
 mg/kg
 4
 9072306
 AC
 25-Jul-19
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton

Hobbs NM, 88240

Project: FAS-19-002

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

B - 2, TL, 22-24'

H902500-10 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 2200 16.0 mg/kg 4 9072306 AC 25-Jul-19 4500-Cl-B

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Safety & Environmental Solutions

Project: FAS-19-002

Reported:

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B-2, TL, 25-27'

H902500-11 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst

Cardinal Laboratories

Inorganic Compounds

1710 16.0 9072306 25-Jul-19 4500-Cl-B Chloride mg/kg

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

Reported: 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 3, TL, 0-2' H902500-12 (Soil)

Analyte Resul	t MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride 1890 16.0 mg/kg 4 9072306 AC 23-Jul-19 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton

Hobbs NM, 88240

Project: FAS-19-002

Project Number: NONE GIVEN

Project Manager: Bob Allen

Reported: 26-Jul-19 12:05

Fax To: (575) 393-4388

B-3, TL, 10-12' H902500-13 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst

Cardinal Laboratories

Inorganic Compounds

16.0 9072306 23-Jul-19 4500-Cl-B Chloride 560 mg/kg

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Reported:



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

ZEN 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 3, TL, 15-17' H902500-14 (Soil)

Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method No.

Cardinal Laboratories

 Inorganic Compounds

 Chloride
 256
 16.0
 mg/kg
 4
 9072306
 AC
 23-Jul-19
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



Safety & Environmental Solutions

Project: FAS-19-002

Reported: 26-Jul-19 12:05

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

Project Manager: Bob Allen Fax To: (575) 393-4388

B-3, TL, 20-22' H902500-15 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Analyte	Result	MDL	Reporting	Units	Dilution	Ratch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

Inorganic Compounds 272 9072306 23-Jul-19 4500-Cl-B Chloride 16.0 mg/kg

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

Reported: 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 4, TL, 0-2' H902500-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborato	ries					

 Inorganic Compounds

 Chloride
 2720
 16.0
 mg/kg
 4
 9072306
 AC
 23-Jul-19
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

Project: FAS-19-002

Reported: 26-Jul-19 12:05

703 East Clinton Hobbs NM, 88240 Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

B-4, TL, 5-7'

H902500-17 (Soil)

Analyte Result MDL Reporting Limit Units Dilution Batch Analyst Analyzed Method N	Notes
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Cardinal Laboratories

Inorganic Compounds 1310 16.0 9072306 23-Jul-19 4500-Cl-B Chloride mg/kg

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Safety & Environmental Solutions

703 East Clinton

Hobbs NM, 88240

Project: FAS-19-002

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

B-4, TL, 10-12' H902500-18 (Soil)

Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method	Result MDL Limit Units Dilution	ion Batch Analyst Analyzed Method Notes
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Cardinal Laboratories

Inorganic Compounds 16.0 9072306 23-Jul-19 4500-Cl-B Chloride 64.0 mg/kg

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN

Reported: 26-Jul-19 12:05

Project Manager: Bob Allen

Fax To: (575) 393-4388

B - 4, TL, 15-17' H902500-19 (Soil)

Reporting
Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 32.0 16.0 mg/kg 4 9072306 AC 23-Jul-19 4500-Cl-B

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Safety & Environmental Solutions

703 East Clinton

Hobbs NM, 88240

Project: FAS-19-002

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

B-4, TL, 20-22'

H902500-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

Inorganic Compounds 16.0 9072306 23-Jul-19 4500-Cl-B Chloride 16.0 mg/kg

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: FAS-19-002

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 26-Jul-19 12:05

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9072217 - 1:4 DI Water										
Blank (9072217-BLK1)				Prepared &	Analyzed:	22-Jul-19				
Chloride	ND	16.0	mg/kg							
LCS (9072217-BS1)				Prepared &	Analyzed:	22-Jul-19				
Chloride	400	16.0	mg/kg	400	·	100	80-120		·	
LCS Dup (9072217-BSD1)				Prepared &	Analyzed:	22-Jul-19				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 9072306 - 1:4 DI Water										
Blank (9072306-BLK1)				Prepared &	Analyzed:	23-Jul-19				
Chloride	ND	16.0	mg/kg							
LCS (9072306-BS1)				Prepared &	Analyzed:	23-Jul-19				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (9072306-BSD1)				Prepared &	: Analyzed:	23-Jul-19				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

14601062

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

	Add'I Fay #:	Yes WNo	Phone Result:	111	Received By:	Date: 10 / 10 Rece	\ \ \	Relinquished By:
		1	asons or otherwise.	on any of the above stated re-	service. In no event shall Cardinal be liable for indidental of consequental damages, including without intriation, custiness interruptions, loss of use, or loss of pouns incurrence of services hereunder by Cardinal, tegardless of whether such claim is based upon any of the above stated reasons or otherwise.	isequental damages, including without lift ce of services hereunder by Cardinal, rec	ardinal be liable for incidental or cor ing out of or related to the performan	affiliates of successors arisi
		bie	d by the client for the rompletion of the application of the supplication of the suppl	all be limited to the amount par by Cardinal within 30 days after	PLEASE NOTE: Liability and Damages. Cardinal's lability and clent's exclusive renetly for any claim arising whether based in contract or tort, shall be limited to the amount poat by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made last of the colored by Cardinal within 30 days after complete or of the splicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made last of the colored by Cardinal within 50 days after complete or of the splicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made last of the colored by Cardinal within 50 days after complete or of the colored by Cardinal Williams.	client's exclusive remedy for any claim ar er cause whatsoever shall be deemed wa	nd Damages. Cardinal's liability and ng those for negligence and any oth	PLEASE NOTE: Liability a analyses, All claims includi
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lde		do	3		Fax#	SOLVED	ひかくつの	Sampler Name:
1EC		leo	Per:	e #:	Phone #	765	" LODING	Project Location:
d		l		Zip:	State:			Project Name:
		7/			City:	Project Owner:	5-19-00	Project #: FAS
		25		SS:	388 Address:	Fax #: 575 393-4388	575 397-0510	Phone #: 575
		11		20	Zip: 88240 Attn:	State: NM Zip: 8	Hobbs	City: Ho
		9		any: Same	Company:	O Box 1613	703 East Clinton, PO	Address: 7(
			.*!	Tr.	P.O. #:	ž.	Bob Allen	Project Manager:
	ANALYSIS REQUEST			BILL TO	S	Safety and Environmental Solutions		Company Name:

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

3.60

4.00

Sample Condition
Cool Intact
Tyes Tyes
No No

40

CHECKED BY: (Initials)

Time:

Received By:

Date: 19/19

Phone Result:
Fax Result:
REMARKS:

□ Yes

NO NO

Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-2476	6			TO	かりとと	
Company Name:	Safety and Environmental Solutions	olutions	BILL TO		ANAI YSIS B	RECLIEST	
Project Manager:	: Bob Allen	50	P.O. #:			_ i & C C C C C C C C C C	
Address: 70	703 East Clinton, PO Box 1613		Company: Same	// 0	9		
city: Ho	Hobbs State: NM	Zip: 88240	0	(-)	3//		
Phone #: 575	575 397-0510 Fax #: 575 3	575 393-4388	Address:	10	16.		
Project #: テリ	を用く 19-002 Project Owner:		City:		7/		
Project Name:	-		State: Zin:	0			
Project Location:	udjalvi don		#	0			
Sampler Name:	DAVIAITONO		Fax #:	De			
FOR LAB USE ONLY	9	MATRIX	PRESERV. SAMPLING)) c			
Lab I.D.	Sample I.D.	OR (C)OMP TAINERS NDWATER WATER	ASE: DOL	1.10k			d
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nalyses. All claims including trivice. In no event shall Card	Inalyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in contract or tort, shalf-be limited to the amount paid by the client for the envire. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, it is subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, or successors arising out of or related to the performance of services beganning the analysis of the client of the performance of services beganning the analysis of the client of the performance of services beganning to the client of the performance of services and the client of the performance of services beganning the client of the performance of services and the client of the performance of services beganning the client of the performance of services and the client of the performance of the client of the performance of the perfor	claim ansing whether based in contract or order or waived unless made in writing and rethrout limitation, business interruptions, los it and reparties of whother order.	r tort, shalf-be limited to the armount paid b eceived by Cardinal within 30 days after or is of use, or loss of profits incurred by cifer	y the client for the ompletion of the applicable nt, its subsidiaries,			
Relinquished By:	Date://9/19	Received By:	De localiste accorde suit de local de l	ılt: □ Yes	No		
4	ON: 90 XLOS	Jamara &	RITERIOR	1000	No		
reinquisned by:	// Date:	Received By:			8		

Relinquished By:

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Pres Pres
No No

40

CHECKED BY: (Initials)

Delivered By: (Circle One) 3.6

Time: