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Incident ID	NCH1903363086
District RP	1RP-5318
Facility ID	
Application ID	pCH1903363384

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?	>141 (ft bgs)		
Did this release impact groundwater or surface water?			
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?			
Are the lateral extents of the release overlying an unstable area such as karst geology?			
Are the lateral extents of the release within a 100-year floodplain?			
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. Field data	ls.		
☐ Data table of soil contaminant concentration data			
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
 ☑ Boring or excavation logs ☑ Photographs including date and GIS information 			
✓ Topographic/Aerial maps			
☐ Laboratory data including chain of custody			

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

Received by OCD: 5/7/2020 11:39:00 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NCH1903363086
District RP	1RP-5318
Facility ID	
Application ID	pCH1903363384

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: Ralph Tijerina	Title: Director EHS		
Signature: Ralph Tijerina Date: 3/16/2020			
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964		
OCD Only			
Received by:Cristina Eads	Date: _05/07/2020		

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Incident ID NCH1903363086

District RP 1RP-5318

Facility ID

Application ID pCH1903363384

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 ✓ Proposed schedule for remediation (note if remediation plan time 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be conf	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	eduction equipment where remediation could cause a major facility
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 rules and regulations all operators are required to report and/or file complicitly should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD as responsibility for compliance with any other federal, state, or local land	ertain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ecceptance of a C-141 report does not relieve the operator of ws and/or regulations.
Printed Name: Ralph Tijerina	Title: Director EHS
Signature: Ralph Tijerina	Date: 05/07/2020
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964
OCD Only	
Received by: Cristina Eads	Date:05/07/2020
☐ Approved	Approval
Signature: Justin E.S.	Date: 05/07/2020

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Incident ID	NDHR1918658476
District RP	1RP-5606
Facility ID	
Application ID	pDHR1918658098

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?	>141 (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 well Field data	ls.			
☐ Data table of soil contaminant concentration data ☐ Depth to water determination				
Deput to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release				
Boring or excavation logs				
 ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps 				
Laboratory data including chain of custody				

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.

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Incident ID	NDHR1918658476
District RP	1RP-5606
Facility ID	
Application ID	pDHR1918658098

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: Ralph Tijerina Title: Director EHS			
Signature: Ralph Tigerina Date: 3/16/2020			
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964			
OCD Only			
Received by: Cristina Eads	Date:05/07/2020		

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Incident ID NDHR1918658476
District RP 1RP-5606
Facility ID PDHR1918658098

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 ✓ Proposed schedule for remediation (note if remediation plan time 		
	11 1 /	
Deferral Requests Only: Each of the following items must be conf	irmed 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 rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD acresponsibility for compliance with any other federal, state, or local lateral contents of the compliance with any other federal, state, or local lateral contents of the compliance with any other federal, state, or local lateral contents of the compliance with any other federal, state, or local lateral contents of the compliance with any other federal contents.	rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, eceptance of a C-141 report does not relieve the operator of	
Printed Name: Ralph Tijerina	Title: Director EHS	
Signature: Ralph Tigerina	Date: 05/07/2020	
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964		
OCD Only		
Received by: Cristina Eads	Date: 05/07/2020	
☐ Approved ☐ Approved with Attached Conditions of A	pproval	
Signature: Justures I	Date: 05/07/2020	

1RP-5318 & 1RP-5606 affected the same area. In accordance with the NMOCD, the releases will be remediated simultaneously. To aid in recordkeeping, the attached *Site Assessment Report, Proposed Remediation Workplan & Alternative Closure Strategy* has been submitted through the NMOCD Online Payment Portal for **each** incident; 1RP-5318 & 1RP-5606.

Site Assessment Report, Proposed Remediation Workplan & Alternative Closure Strategy

Goodnight Midstream Permian, LLC Penroc State E TR 27 #002 & Piper SWD Fire

Lea County, New Mexico
Unit Letter "M", Section 18, Township 21 South, Range 37 West
Latitude 32.472598 North, Longitude 103.20721 West
NMOCD Ref. No. 1RP-5318 & 1RP-5606

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Daniel Dominguez

Joel W. Lowry



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FIGURES

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TABLES

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil

APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data and Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream, has prepared this Report for the Release Sites known as the Penrock State E TR 27 #002 and the Piper SWD. Details of the releases are as follows:

Location of Release Source				
Latitude:	32.47258	Longitude:	-103.20732	
	Provided GPS are in WGS84 format.			
Site Name: Penroc State E Site Type: SWD			SWD	
Date Release Discovere	ed: 12/22/2018	API # (if applie	cable): 30-025-26491	
Unit Letter Sec	ction Township	Range	County	
M	18 21S	37E	Lea	
Surface Owner: X State Federal Tribal Private (Name Nature and Volume of Release				
X Crude Oil	Volume Released (bbls	s) 5	Volume Recovered (bbls) 4	
X Produced Water	Volume Released (bbls	s) 595	Volume Recovered (bbls) 594	
	Is the concentration of oproduced water > 10,00	dissolved chloride in the 0 mg/L?	X Yes No No N/A	
Condensate	Volume Released (bbls) Volume Recovered (bbls)		Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf) Volume R		Volume Recovered (Mcf)	
Other (describe)	ner (describe) Volume/Weight Released Volume/Weight Recovered		Volume/Weight Recovered	
Cause of Release: The release was attributed to a filter having a blockage which caused a back-up of fluid flowing out of the top.				
Initial Response				
X The source of the release has been stopped. X The impacted area has been secured to protect human health and the environment.				
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices X All free liquids and recoverable materials have been removed and managed appropriately.				

	Locati	on of Release Sou	rce							
Latitude:	32.47259 Longitude: -103.20721									
	Pr	rovided GPS are in format.								
	nroc State E (Piper SWD)	Site Type:	SWD							
Date Release Discovere	ed: 6/24/2019	API # (if applical	ble): 30-025-26491							
	ction Township	Range	County							
M	18 21S	37E	Lea							
Surface Owner: X Sta	ate Federal Tribal	Private (Name	e)							
	Nature a	and Volume of Ro	elease							
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)							
X Produced Water	Volume Released (bbls)	400	Volume Recovered (bbls) 355							
	Is the concentration of disso produced water > 10,000 mg		X Yes No N/A							
Condensate	Volume Released (bbls)		Volume Recovered (bbls)							
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)							
Other (describe)	Volume/Weight Released		Volume/Weight Recovered							
The release was attribu	Cause of Release and Affected Area: The release was attributed to a storage tank catching fire. A majority of the release was confined to within the lined containment. Approximately 45 bbls flowed south, outside the containment.									
	Initial Response									
X The source of the r	X The source of the release has been stopped.									
X The impacted area l	The impacted area has been secured to protect human health and the environment.									
X Release materials h	nave been contained via the use	e of berms or dikes, abso	orbent pad, or other containment devices							
X All free liquids and	recoverable materials have been	en removed and manage	ed appropriately.							

A majority of each of the releases was confined to within the lined containment. Portions of the releases flowed south, outside the containment, affecting the adjacent caliche access road and pasture area. Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information or available gauging data. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	> 14	11 Ft.
Did the 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	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	X Yes	No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

	Closure Criteria for Soil Impacted by a Release									
Probable Depth to Groundwater	Constituent	Method	Limit							
	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg							
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg							
141 ft	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg							
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg							
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg							

west to encompass soil sample Exc. B WSW and south to encompass soil samples NSW #1 and NSW #2. Excavated soil was temporarily stockpiled on-site, then transported to an NMOCD-approved surface waste facility for disposal. Excavation sidewalls were advanced until laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On October 14, 2019, Etech collected twelve (12) soil samples (Floor 1 through Floor 12) from the floor of the excavated area beneath the former salt water disposal containment in an effort to determine if soil remaining in-situ was affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentration were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, fifteen (15) excavation confirmation soil samples (NW1b, NW2b, NW3b, EW1b, EW2, EW3, EW4b, SW1, SW2b, SW3b, SW4b, WW1b, WW2b, WW3 and WW4) were collected from the sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples WW1b which exhibited a chloride concentration of 2,800 mg/kg, soil sample WW2b which exhibited a chloride concentration of 960 mg/kg, soil sample WW3 which exhibited a chloride concentration of 1,180 mg/kg, soil sample WW4 which exhibited a chloride concentration of 2,240 mg/kg and EW3 which exhibited a GRO+DRO concentration of 1,441.8 mg/kg.

On February 10, 2020, excavation activities resumed at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the area characterized by soil sample EW3 was excavated. Upon excavating impacted soil in the area characterized by soil sample EW3, Etech collected one (1) excavation confirmation soil sample (EW3b) from the sidewalls of the excavated area. The collected soil samples was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. Further advancement of the west sidewall of the excavation in the area characterized by soil samples WW1b, WW2b, WW3 and WW4 was precluded for safety concerns.

The affected area outside the former salt water disposal containment has been remediated in accordance with the NMOCD. Impacted soil beneath the former salt water disposal containment has been excavated to a depth of approximately 4 Ft. bgs. To date, approximately 3,600 cy of impacted soil has been excavated and transported to an NMOCD-permitted surface waste facility for disposal. Remediation actives were temporarily placed on hold pending the plugging of commercial freshwater wells that were installed by the previous facility owner.

5.0 PROPOSED REMEDIAL ACTIVITIES

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- •In accordance with the NMOCD, excavate impacted soil present within the floor of the excavated area beneath the former salt water disposal containment in the areas characterized by sample points Floor 2, Floor 4, Floor 5, Floor 8 and Floor 9.
- •Advance the excavation sidewalls horizontally until laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.
- •Upon receiving laboratory analytical results from excavation confirmation soil samples, install a 20-mil polyurethane liner on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard remaining in-situ.
- •Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

west to encompass soil sample Exc. B WSW and south to encompass soil samples NSW #1 and NSW #2. Excavated soil was temporarily stockpiled on-site, then transported to an NMOCD-approved surface waste facility for disposal. Excavation sidewalls were advanced until laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On October 14, 2019, Etech collected twelve (12) soil samples (Floor 1 through Floor 12) from the floor of the excavated area beneath the former salt water disposal containment in an effort to determine if soil remaining in-situ was affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentration were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, fifteen (15) excavation confirmation soil samples (NW1b, NW2b, NW3b, EW1b, EW2, EW3, EW4b, SW1, SW2b, SW3b, SW4b, WW1b, WW2b, WW3 and WW4) were collected from the sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples WW1b which exhibited a chloride concentration of 2,800 mg/kg, soil sample WW2b which exhibited a chloride concentration of 960 mg/kg, soil sample WW3 which exhibited a chloride concentration of 1,180 mg/kg, soil sample WW4 which exhibited a chloride concentration of 2,240 mg/kg and EW3 which exhibited a GRO+DRO concentration of 1,441.8 mg/kg.

On February 10, 2020, excavation activities resumed at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the area characterized by soil sample EW3 was excavated. Upon excavating impacted soil in the area characterized by soil sample EW3, Etech collected one (1) excavation confirmation soil sample (EW3b) from the sidewalls of the excavated area. The collected soil samples was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. Further advancement of the west sidewall of the excavation in the area characterized by soil samples WW1b, WW2b, WW3 and WW4 was precluded for safety concerns.

The affected area outside the former salt water disposal containment has been remediated in accordance with the NMOCD. Impacted soil beneath the former salt water disposal containment has been excavated to a depth of approximately 4 Ft. bgs. To date, approximately 3,600 cy of impacted soil has been excavated and transported to an NMOCD-permitted surface waste facility for disposal. Remediation actives were temporarily placed on hold pending the plugging of commercial freshwater wells that were installed by the previous facility owner.

5.0 PROPOSED REMEDIAL ACTIVITIES

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- •Collect the remaining excavation confirmation soil samples from the floor and sidewalls of the excavated area.
- •Advance the excavation sidewalls horizontally until laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.
- •Upon receiving laboratory analytical results from excavation confirmation soil samples, install a 20-mil polyurethane liner on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard remaining in-situ.
- •Upon installing the 20-mil polyurethane liner on the floor of the excavation, backfill the excavated area with locally sourced, non-impacted "like" material. Excavation backfill will be contoured to match the surrounding topography.
- •Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

6.0 VARIANCE REQUEST

In accordance with NMAC 19.15.29.14, Goodnight requests a variance to install a 20-mil string reinforced liner within the floor of the open excavation at approximately 4 Ft. bgs. An approximate 6-inch layer of pad material will be installed below and above the liner in an effort to ensure its maintained integrity during backfilling activities. Goodnight maintains that excavating and disposing of portions the release site to depths up to and beyond 9 Ft. bgs at an active facility or in other areas with potential for soil instability poses a risk to human health that exceeds the benefits of the excavation and disposal of impacted soil affected above the NMOCD Closure Criteria. This assertion is based primarily on the inherent dangers of continued and/or substantial excavation adjacent to oil and gas infrastructure, or in areas where soil stability may be an issue, and the risks associated with transporting the associated soil on public highways to a surface waste disposal facility. The assertion is further substantiated by the understanding that additional remediation activities, beyond that which has been proposed, will result in increasing the duration of exposure among environmental field personnel and/or exposure of additional environmental field personnel. Based on the aforementioned; the Site's distance from populated areas and/or drinking water supplies; a proposed cover consisting of a minimum of four (4) ft. of non-impacted soil and/or a 20-mil polyurethane liner; and the relative unlikelihood of future exposure resulting in diminished public health; Goodnight maintains the proposed variance will provide equal or better protection of public health. Laboratory analytical results indicate BTEX and TPH concentrations were less than the NMOCD Closure Criteria in each of the excavation confirmation soil samples. Analytical results indicate affected soil exhibiting chloride concentrations above the NMOCD Closure Criteria has been delineated to less than 600 mg/kg in each of the vertical sample locations, with the exception of test trenches TT-2 and TT-3, which exhibited a chloride concentrations of 800 mg/kg and 928 mg/kg at 9 Ft. and 7 Ft., respectively. Analytical results indicate the maximum chloride concentration Goodnight proposes to leave in-situ is 2,600 mg/kg (Floor 8). Goodnight proposes to install a 20-mil polyurethane liner on the floor of the excavation at 4 Ft. bgs in the area beneath the former tank battery containment. This engineering control is designed to inhibit the vertical migration of contaminants left insitu. Based on the aforementioned, and given 19.15.29 NMAC allows for impacted soil exhibiting chloride concentrations ranging from 600 mg/kg to 20,000 mg/kg to remain in-situ at depths of greater than four (4) ft. bgs, where the distance between impacted soil and groundwater is not defined, Goodnight maintains the proposed variance will provide equal or better protection of fresh water and the environment.

7.0 ALTERNATIVE CLOSURE STRATEGY

Goodnight is in the process of plugging the on-site commercial fresh water wells installed by the previous facility owner. Prior to plugging the wells, groundwater samples may be obtained and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Upon receiving laboratory analytical results indicating demonstrating the on-site well are not affected and plugging the on-site commercial fresh water wells installed by the previous owner, backfill the excavated area with locally sourced, non-impacted "like" material. The western portion of the Site will be restored to meet the needs of the well pad; the eastern portion of the Site will be restored and reclaimed to match the surrounding pasture.

8.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **400 square feet**. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

9.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval of the Site Assessment Summary and Proposed Remediation Plan. It is estimated that approximately 3,600 cubic yards of soil has been impacted above the NMOCD Closure Criteria.

10.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

11.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or Goodnight Midstream Permian, LLC.

13.0 DISTRIBUTION

Goodnight Midstream Permian, LLC 5910 N Central Expy Dallas, TX 75206

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

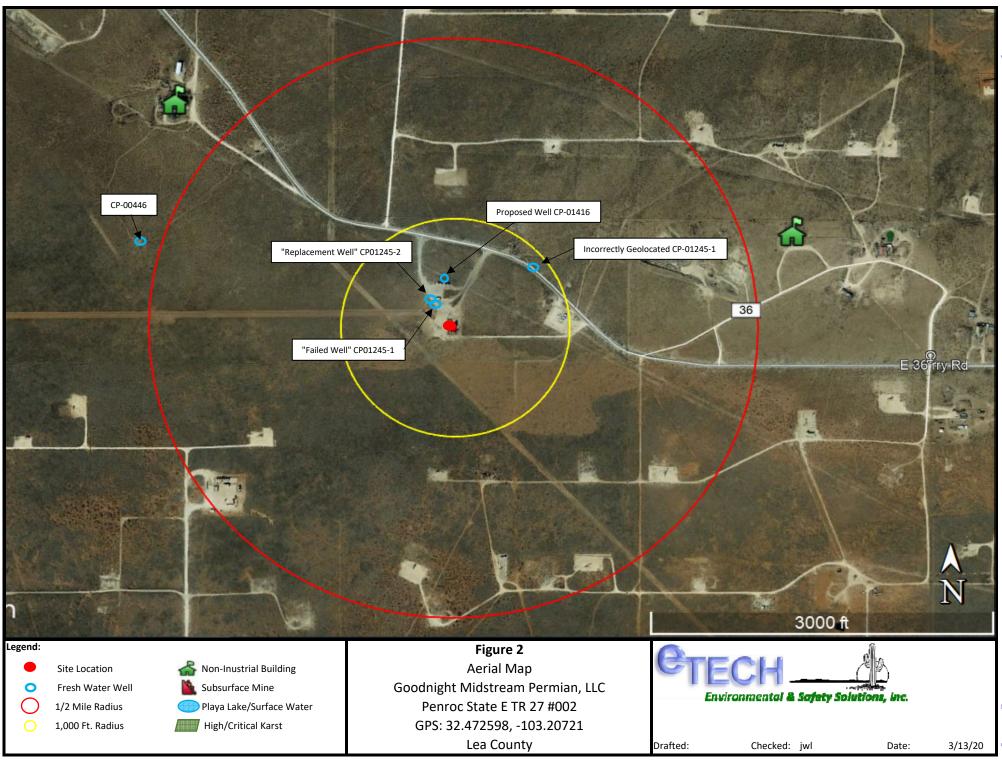
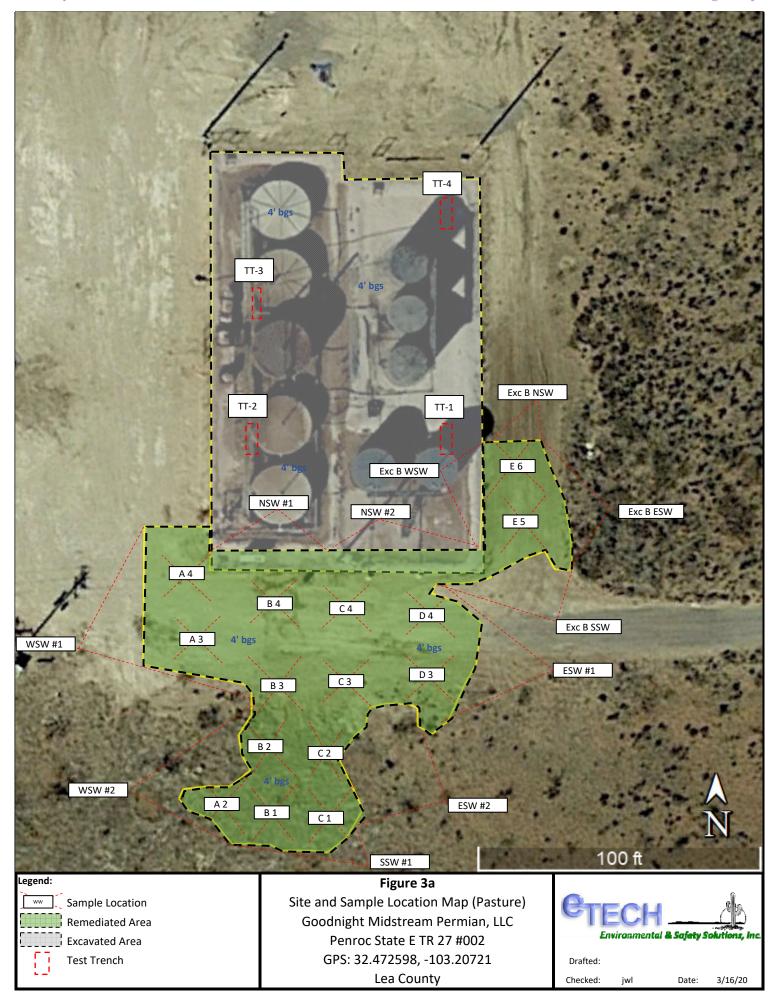


Figure 3 Site and Sample Location Map



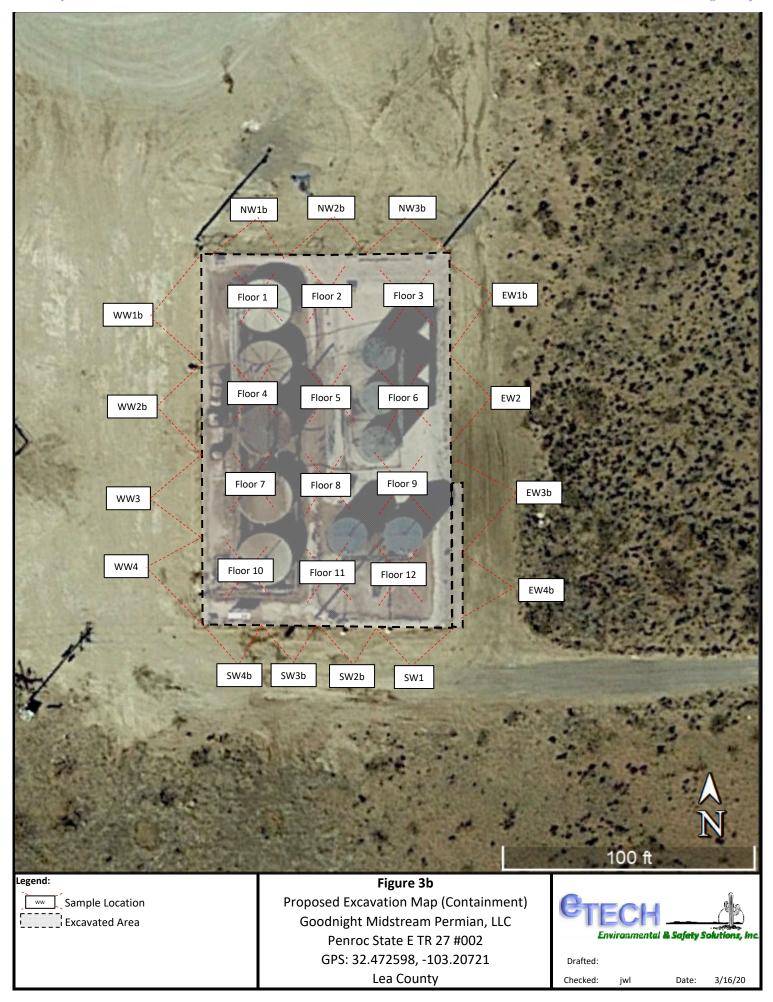


Table 1 Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL

${\bf Goodnight\ Midstream\ Permian, LLC}$

Penroc State E TR 27 #002

NMOCD Ref. #s: 1RP-5318 & 1RP-5604

	NMOCD Ref. #s: 1RP-5318 & 1RP-5604										
				SW 840	6 8021B		SW	846 8015M	Ext.	T	4500 CI
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	TPH	Chloride
				(mg/kg)	(mg/kg)	C ₆ -C ₁₀	C ₁₀ -C ₂₈	C_6 - C_{28}	C ₂₈ -C ₃₆	C ₆ -C ₃₆	(mg/kg)
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
A2	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
A3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
A4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
B1	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
B2	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
В3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
B4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
C1	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
C2	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
C3	7/11/2019	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
C4	7/11/2019	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
D3	7/11/2019	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
D4	7/11/2019	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
E5	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
E6	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NSW#1	7/12/2019	2'	Excavated	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NSW#2	7/12/2019	2'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
ESW#1	7/12/2019	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
ESW#2	7/12/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SSW#1	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WSW#1	7/12/2019	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WSW#2	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Exc. B NSW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
Exc. B ESW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
Exc. B SSW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
Exc. B WSW	7/12/2019	2	Excavated	< 0.050	< 0.300	<10.0	71.8	71.8	21.5	93.3	15,200
TT-1	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	672	672	192	864	4,800
	8/16/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	45.8	45.8	12.1	57.9	144
TT-2	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	134	134	29.5	163.5	3,040
	8/16/2019	9'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
TT-3	8/16/2019	Surface	Excavated	< 0.050	< 0.300	27.6	3,210	3,237.6	938	4,175.6	2,320
	8/16/2019	7'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	16.6	16.6	928
TT-4	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/16/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
Floor 1	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
Floor 2	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	147	147	59.6	206.6	2,160
Floor 3	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Floor 4	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
Floor 5	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
Floor 6	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
Floor 7	10/14/2019	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
Floor 8	10/14/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
Floor 9	10/14/2019	4'	In-Situ	<0.050	<0.300	<10.0	965	965	239	1,204	480
Floor 10	10/14/2019	4'	In-Situ	<0.050	<0.300	<10.0	72.4	72.4	31.5	103.9	288
Floor 11	10/14/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
Floor 12	10/14/2019	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NW1b	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
NW2b	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
NW3b	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW1b	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW2	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW3	10/14/2019	2'	Excavated	<0.050	<0.300	11.8	1,430	1,441.8	408	1,849.8	160
EW4b	10/14/2019	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW1 SW2b	10/14/2019 10/14/2019	2' 2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
			In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3b	10/14/2019	2' 2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
SW4b	10/14/2010	. /	In-Situ	< 0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	240 2,800
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10/14/2019		In 0:4-	/n nsn		· >100		· <td></td> <td></td> <td></td>			
WW1b	10/14/2019	2'	In-Situ	<0.050	<0.300					_	
WW2b	10/14/2019 10/14/2019	2' 2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
WW2b WW3	10/14/2019 10/14/2019 10/14/2019	2' 2' 2'	In-Situ In-Situ	<0.050 <0.050	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	960 1,180
WW2b WW3 WW4	10/14/2019 10/14/2019 10/14/2019 10/14/2019	2' 2' 2' 2'	In-Situ In-Situ In-Situ	< 0.050	<0.300 <0.300 <0.300	<10.0 <10.0 <10.0	<10.0 <10.0 <10.0	<20.0 <20.0 <20.0	<10.0 <10.0 <10.0	<30.0 <30.0 <30.0	960
WW2b WW3 WW4 EW3b	10/14/2019 10/14/2019 10/14/2019	2' 2' 2' 2' 2'	In-Situ In-Situ	<0.050 <0.050	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	960 1,180

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria and/or NMOCD Reclamation Standard

Appendix A Depth to Groundwater Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD

		Sub-		Q	Q (Q								V	Vater
POD Number	Code	basin	County	64	16	4 S	ec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater C	olumn
<u>CP 01245 POD1</u>		CP	LE			4 1	18	21S	37E	668676	3594411 🌕	265	220		
<u>CP 00446 POD1</u>		CP	LE	1	4	4 1	13	21S	36E	667871	3594424*	632	185	148	37
<u>CP 00446 POD2</u>		CP	LE	1	4	4	13	21S	36E	667871	3594424*	632	200	151	49

Average Depth to Water:

149 feet

Minimum Depth:

148 feet

Maximum Depth:

151 feet

Record Count: 3

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 668475

Northing (Y): 3594237 **Radius:** 880

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/16/20 7:01 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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USGS Water Resources

Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322831103125602

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125602 21S.36E.13.412232

Lea County, New Mexico Latitude 32°28'31", Longitude 103°12'56" NAD27 Land-surface elevation 3,557 feet above NAVD88 The depth of the well is 185 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurema
1967-10-10		D	147.44			2		U		
1970-12-15		D	147.81			2		U		
1981-03-09		D	149.29			2		U		
1986-03-06		D	149.21			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-08-19 17:48:17 EDT

0.47 0.44 nadww01

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Agency code = usgs site_no list =

• 322831103125601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125601 21S.36E.13.41223

Lea County, New Mexico Latitude 32°28'31", Longitude 103°12'56" NAD27 Land-surface elevation 3,557 feet above NAVD88 The depth of the well is 200 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measureme
]
1967-10-10		D	150.88			:	2		J	
1968-03-19		D	150.97			:	2		J	
1970-12-15		D	151.85			:	2	P	J	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	Р	Site was being pumped.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322816103114201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322816103114201 21S.37E.18.442123

Lea County, New Mexico Latitude 32°28'16", Longitude 103°11'42" NAD27

Land-surface elevation 3,513 feet above NAVD88

The depth of the well is 125 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data					
Tab-separated data					
Graph of data					
Reselect period					

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1954-01-10		D	99.70			2		U		
1968-03-13		D	98.92			2		U		
1970-12-15		D	99.66			2		U		
1981-02-27		D	98.82			2		U		
1986-03-18		D	98.85			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-08-19 17:49:52 EDT

0.58 0.55 nadww01

USA.gov

Appendix B Field Data and Soil Profile Logs



Soil Profile

				Date: 11-JU	11-19	
Project:	Piper SWD Fire					
Project Number:	10769	Latitude:	32.472598	Longitude:	-103.20721	
•						
Depth (ft. bgs)			De.	scription		
1	Topsoil					
2						
3						
TD 4						
5	Caliche					annununun
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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27						
28						
29						
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31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

	Piper SWD Fire 6/25/19
	PPM Mathew Griew
Point Time C1	In Chigh
SP1185 11:05 5	100
1	2728 4848
SP9@5 11:11	4 4484
SP805 11:13	6084
SP & @ 3' 16	
SP705 11:15	3252
Spl@5 11:18	3532
595@5 11:23	2068
-> 584@s 1):26	8900 - Isnerty
583 @5 11:29	5644
582@5 11:34	4484
581C5 11:36	4148
5810@1	1508
5910@2	2504
SP10@3' <108	< 1184
Spaci'	3832
5P9 C2' < 108	< 1149
spaes' 164	5/1/84
SP8@11	3272
5882' [728	

Piper SWD fine 6/25/19 Matthew Grieco

Time 4 on CI him 3832 587e21 1508 SP2 @3' 1728 SP3@11 604 < 1/84 583 C 2' 1252 593e31 604 58201 4108 <1189 58201' 320 SP\$@31 604 SP6@ 11 200 <1/14 586@ 21 200 586831 364 6P501' <108 <1184 SPSEZ' 408200 585@31 200 FIELL 556 58102 (62) 591031 832



roject:	Piper SWD Fire		Clean Un Lavel	Date:	0-26-19	
roject Number:	10769	Latitude:	Clean Up Level: 32.472598	Longitude:	-103.2	0721
		SPI	espa es		SPS	
			SPR (
		· spio	509			
	THE RESERVE OF THE PARTY OF THE	PIT				
Notes: condi	ect initial site	assessment	: sample + fiel	d siveen		
~Length: (\Û	~Width: (00	~Area:		~Depth:	Yes	No
3-4 Renresentati	ive Pictures of the Affe	cted Area includi	ng sample locations?		res	
	les Field Screened and		ing sample locations:			
	Screen Data Entered					
	and vertical delineation					
	vertical defineation	adilic ved:			u	



Sample Log

Date: 8/16/2019

Project: Piper SWD Fire

Project Number: 10769 Latitude: 32.472598 Longitude: -103.20721

Sample ID	PID/Odor	Chloride Conc.	32,47251 GPS
TT-1@Surt.	moderti	72428	32.47251, -103.207104
77-1071	Slight	1844	1.
77-103'	31ight	377	1.
	3"		
TT-20 Surt.	Slight	2482	32.47251, -103.20731
77.2071	None	1520	,
77-2041	~1	1348	
7-7051	*7	896	
71-206	X ()	542	
77-207'	*1	712	
77-208'	**	452	
77-209'	••	496	
		-	
77-30 Surt.	Heavy	2428	32,47266,-103,20732
77-304'	Slight	1520	· ic · y
17-3 P5'	Slight	1348	b. 6,
17-3 P 6'	None	772	· · · · · · · · · · · · · · · · · · ·
77-3071	Now	544	n. 1,
77-40 sud.	Nove	4108	32.47272, -103.20718
77-401	**	148	10
		-	1. 1.
77-5- @ such.	Slight	1252	32.47267, -163. 20716
77-5041	Slight	1620	```
77.505'	Nove	guy	t, − 1,
77-5 P6'	Now	236	t. 'Y
77-60u'	None	2,572	32,47244, -103,767.23
77-600'	× 1	1,804	, , , , , , , , , , , , , , , , , , , ,
77-607	51	402	1,

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

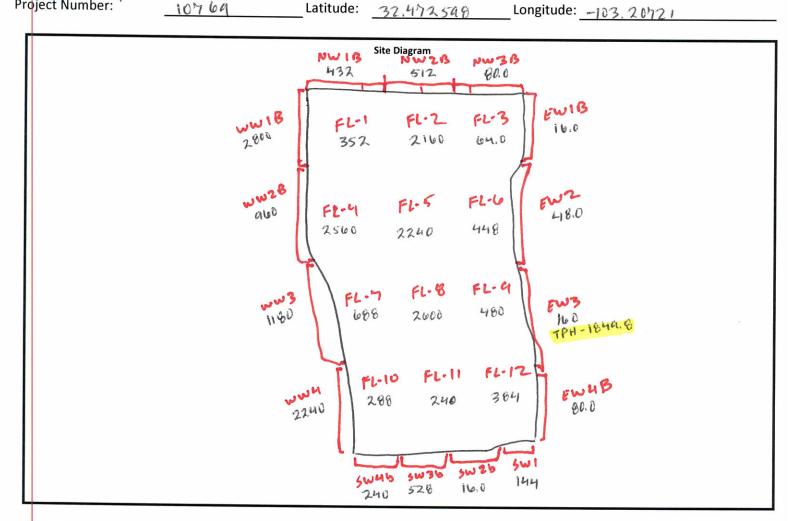
GPS Sample Points, Center of Comp Areas



Environmental & Safety So.	lutions, Inc.			Date:	8/10/2010	' 1
roject: roject Number:	Piper SWD Fire 10769	Latitude:	Clean Up Level: 32.472598	Longitude:	-103.2	
			Site Diagram			
	1	-				
		100	ſ	7774		
			L			
		· ·	£			
		11.3	77:5			
		1 1 -	Ļ			
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				177		
		17		in		
		L	•			
			•			
Notes: Dal' a	F 401 7 0	1		./		
Notes: Delinge Condu	nt. Svil Inpu nt Chiaride F	ield Test	h (Outain mou	<u> </u>		
				with the second	Δ	
~Length: \5()	~Width: (00	~Area: \5	6,000	~Depth: \-		20
3-4 Representative	Pictures of the Affecte	d Area includin	g sample locations?		Yes □✓	No □
	Field Screened and on		is sample locations?			
	creen Data Entered on					
Was horizontal and	vertical delineation ac	hieved?				

0	
C	TECH (1)
	Environmental & Safety Solutions, Inc.
	and a sujety solutions, Inc.

	actions, me.					
				Date:	10/11/19	
Project: Piper	SWD Fire		Clean Up Level:			
Project Number: 1	10769	 Latitude:	22 452 500	Longitude	122 0 0 0 0	



Notes:	Excavate Charide In	paded Sidewalls		
	Chloride Lab Result	s in Black Ink	<u></u>	
	TPH bood on all	Sample WI Page	eption of two beators is over!	
- 	EMORIDO FO EAST !	50mth 6600 ((Reclaimation Standard)	
	Chloride on West	Can be up to	20,000 ppm	
~Length:	~Width:	~Area:	~Denth·	

Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	
Necessary Samples Field Screened and on Ice?	
Sample and Field Screen Data Entered on Sample Log?	
Was horizontal and vertical delineation achieved?	



	7	.` .				Date:	3/13/202	U	
- 1	ect: ect Numl	Piper 5	WB 10769	 Latitude:	Clean Up Level:	Longitude:	-103.207	2.4	
_			(0 / 6 %		32.91739		103. 207	2)	
		wen will no anes	weler of the second of the sec	Failed well" Argent Nos Nonre	Nucles Sample	in Water To			
	£ Δ	nutionia 110510d f	orner men uple from	water w/ Fre	s No 1905, n y No 1916 ft Sh Waler Innly				
~	Length:		~Width:	~Area:		~Depth:	Yes	No	
3	4 Repres	entative Pict	tures of the Af	fected Area includin	g sample locations?				
			d Screened an		377.5				
				d on Sample Log?					
			tical delineation						
			energocatanes escapalata escapa e				<u></u>	_	

Appendix C Laboratory Analytical Reports



July 16, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/12/19 14:55.

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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: A 2 (H902410-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location: 10769 GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: A 3 (H902410-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	72.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	74.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location: 10769

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: A 4 (H902410-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	62.3	% 41-142	!						
Surrogate: 1-Chlorooctadecane	61.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed Ry: me

Fax To: (575) 396-1429

Received:

RTFY 8021R

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 1 (H902410-04)

Result	Reporting Limit	Analyzed						
-0.050		Allalyzeu	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
<0.300	0.300	07/15/2019	ND					
103 9	% 73.3-12	9						
mg/	/kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
96.0	16.0	07/15/2019	ND	416	104	400	3.77	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
<10.0	10.0	07/15/2019	ND					
73.4	% 41-142	ı						
72.1	% 37.6-14	7						
	<0.050 <0.150 <0.300 103 9 Result 96.0 mg/ Result <10.0 <10.0 73.4	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 103 % 73.3-12 mg/kg Result Reporting Limit 96.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <73.4 % 41-142		<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location: 10769

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 2 (H902410-05)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	76.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Analyzed Ry: me

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

PIPER SWD FIRE

ma/ka

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 3 (H902410-06)

B1EX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	73.4	% 41-142							
Surrogate: 1-Chlorooctadecane	75.1	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 4 (H902410-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	79.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location:

10769

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 1 (H902410-08)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

103 %

73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane

103 %

41-142

Surrogate: 1-Chlorooctadecane

105 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed Ry: me

Fax To: (575) 396-1429

Received:

RTFY 8021R

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 2 (H902410-09)

B1EX 8021B	mg,	rkg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142)						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Analyzed Ry: me

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 3 (H902410-10)

B1EX 8021B	mg/	rkg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	102 5	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Analyzed Ry: me

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

50il

Project Name:

RTFY 8021R

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number: Project Location:

10769

Sample Received By:

Tamara Oldaker

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 4 (H902410-11)

B1EX 8021B	mg/	кg	Апануге	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	98.2	% 41-142)						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name: Project Number: PIPER SWD FIRE 10769

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

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: D 3 (H902410-12)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	1						
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Celey D. Keine

Cardinal Laboratories



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

PIPER SWD FIRE

mg/kg

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

Project Number: Project Location:

10769

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: D 4 (H902410-13)

DILX OUZID	11197	, kg	Andryzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.0	% 37.6-14	7						

Analyzed By: ms

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: E 5 (H902410-14)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	< 0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	100 %	6 41-142							
Surrogate: 1-Chlorooctadecane	100 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number: Project Location: 10769 GOODNIGHT MIDSTREAM - LEA CO NM Sample Received By:

Tamara Oldaker

Sample ID: E 6 (H902410-15)

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	< 0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	96.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	979	% 37.6-14	17						

Analyzed Ry: me

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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Page 18 of 19

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

Company Name: Etech Envir	Etech Environmental & Safety Solutions, Inc.	BILL 70				ANALYSIS REQ	REQUEST
Project Manager:		P.O. #:			7		
Address: P.O. Box 301		Company: F - +pn)				
City: Lovington	State: NM Zip: 88260	(444			10	
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:					
Project #: (0) - (69	Project Owner: Goodnicht	City:)		
Project Name: Project Swo	Fire 1	State: Zip:	le	5M)	21B)		
Project Location: Lea Co	County	#:	orid	801	(802		
Sampler Name: Hilda V	illa '	Fax #:	Chl	'H (EX		
FOR LABUSE ONLY		PRESERV. SAMPLING		TP	вт	(*	
	(C)OMP ERS ATER	:					
	CONTAIN COUNDW ASTEWA	HER : ID/BASE : / COOL HER :				92	
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\$ 82	20	V 7-11-19	1:22 /	/	7		
6	2	5-11-5	1:30	7	V		
5000		V 7-11-19	1.45	<	5		
801	21 2	0/2-11-19	1.50 2	<	5		
3		2 71-19	V 90.2	5	2		
10 C S	u and client's avelies a comedy for any object objects whether knowledge	0 7.11-9	3:35 /	5	<u></u>		
analyses. All claims including those for negligence and ar service. In no event shall Cardinal be liable for incidental	analyses. All claims including those for regigence and any other cates whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of pofits incurred by client, its subsidiaries.	shall be limited to the amount paid by the clie by Cardinal within 30 days after completion e, or loss of profits incurred by client, its sub	ent for the of the applicable sidiaries				
affiliates or successors arising out of or related to the performance of services Relinguished Ry:	formance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise	upon any of the above stated reasons or ot	therwise.			ı	
Man I	Time (12/12 Received by:	11/11/11	Phone Result: Fax Result:	□ Yes		No Add'l Phone #: No Add'l Fax #:	
Relinquished By:	Date: Received By:	Willes SK					
	Time:						
Delivered Ry: (Circle One)			Please email re	esults	to dani	Please email results to danield@etechenv.com	
Delivered Dy. (Circle Oile)	Sample Condition Cool Intact	CHECKED BY:					
Sampler - UPS - Bus - Other:	~ @	4					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 Revision 1.0

Page 19 of 19

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Etech Environmental & Safety Solutions, In

Company rame. — Econ Environmenta & Salety Solutions, Illo	JOHS, HIG.	BILL 10		ANALYSIS REQUEST
Project Manager:		P.O. #:		
Address: P.O. Box 301		Company: E-tech	AND	
City: Lovington State: NM	Zip: 88260	Attn:		
Phone #: (575) 396-2378	(575) 396-1429	Address:	***************************************	
Project #: 10769 Project Own	Project Owner: Soodulaly	City:		
r Swa Fir	Midsham	State: Zip:	5M)	
Project Location: Lea County		Phone #:	orid 801 (802	
Sampler Name: 4, 1da 1/1/16		Fax #:	Н (
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	TP	
Lab I.D. Sample I.D.	RAB OR (C)OMF ONTAINERS OUNDWATER STEWATER L	HER : D/BASE: / COOL HER :		
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15 Elp		C 7-11-19 3:	8 < < <	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid but the client for the	claim arising whether based in contract or tort.	stall be limited to the amount paid by the offent for	1	
analyses. All claims including those for regigence and any other cause whatsoever stall be deemed warked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for included that in consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by elert, its substitutions affiliates or successors arising out of or related to the performance of services twenther by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	med waived unless made in writing and received thout limitation, business interruptions, loss of us dinal, regardless of whether such claim is based	stall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the a including without limitation, business interruptions, loss of use, or loss of profits incurred by deirnt, its subsidiaries under by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise	no applicable ries, rise,	
Relinquished By: Relinquished By: Relinquished By: Date: 1/4/75 Time: 1/4:75	Received By:	Males Ri	Phone Result: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No REMARKS:	Add'I Phone #: Add'I Fax #:
		\		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	riease email results to pm@etechenv.com	techenv.com
Sampler - UPS - Bus - Other: 1. 42	#97 Pres Pres	(Initials)		
	1			

FORM-006 Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



July 16, 2019

KIM MERRILL

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/19 14:12.

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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions KIM MERRILL P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/15/2019 07/16/2019 Sampling Date:

07/12/2019

Reported:

07/16/2019 PIPER SWD FIRE Sampling Type:

Soil

Project Number:

10769

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

Project Number: Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NSW # 1 (H902418-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	97.0	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.5	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	74.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	81.9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NSW # 2 (H902418-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.6	% 90.4-11	1						
Surrogate: Toluene-d8	100	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.2	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	69.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

P.O. BOX 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: ESW # 1 (H902418-03)

DILX 0200D	ilig	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.9	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.7	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	60.3	% 41-142)						
Surrogate: 1-Chlorooctadecane	71.4	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: ESW # 2 (H902418-04)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.6	% 90.4-11	1						
Surrogate: Toluene-d8	98.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	89.3	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	,						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SSW # 1 (H902418-05)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.1	% 90.4-11	1						
Surrogate: Toluene-d8	98.0	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.8	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	99.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WSW # 1 (H902418-06)

DILX 0200D	ilig	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	100	% 90.4-11	1						
Surrogate: Toluene-d8	98.5	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.9	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

I .O. DOX 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WSW # 2 (H902418-07)

DILX 0200D	ilig	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.2	% 90.4-11	1						
Surrogate: Toluene-d8	99.1	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.1	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EXC. B NSW (H902418-08)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.5	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	87.8	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	66.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EXC. B ESW (H902418-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	100 9	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.4	% 80.1-12	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	61.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EXC. B SSW (H902418-10)

DILX 0200D	ilig	/ Ng	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.5	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	56.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.5	% 37.6-14	17						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received:

BTEX 8260B

07/15/2019

Sampling Date:

07/12/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EXC. B WSW (H902418-11)

DILX 0200D	ilig	r kg	Allalyze	u by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	99.4	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.2	% 80.1-12	21						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	71.8	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	21.5	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	71.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	!7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Rélingujshed(By:

Ted)

Date:
7[15]19
Time:
[0:08

Sampler - UPS - Bus - Other:

3.60

Time: (1:12 Date;//5//9

Sample Condition

CHECKED BY:

Please email results to pm@etechenv.com, danield@etechenv.com and joel@etechenv.com

Cool Intact
A Yes
No No

0 (Initials) Received By:

FORM-006 R 2.0

Defivered By: (Circle One)

Relinquished By:

uental damages, including without limitation, business

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

Phone Result:
Fax Result:
REMARKS:

□ Yes

O O

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

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Etech Environmental & Safety Solutions, Inc.

***************************************	P.O. #:			_	4			_
				_		_		-
	Company: 6	Etech						
#	Attn:							
	Address:							
ปกight MidStrea	am City:							
	State:	Zip:						
	Phone #:							
20	Fax #:		100					
MATRIX	PRESERV.	SAMPLING						
# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TME	Chloride	-	DIEX 0021		
×	×	5		v	Ţ			
×	×	7/12/19 10			×		***************************************	***************************************
×	×	7/12/19			×			
×	×	7/12/19 10		×	×	***************************************		
×	×	7/12/19 10		×	×			
×	×				×		***************************************	
×	×				×	***************************************		
×	×	7/12/19 16			×	***************************************		
×	×				×			
×	×	7/12/19 0		4	×	***************************************		
PLEASE NOTE: Liability and Damages, Cardinat's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other clause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including whiting difficulties, the professions, to see or these of morfs incurred. We write the experience of the contract of the profession of the	ct or tort, shall be limited to t	he amount paid by t						
	GROUNDWATER WASTEWATER WASTEWATER WIGHT WINCOMMAN WASTEWATER WASTEWATER OIL OIL WINCOMMAN WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WINCOMMAN WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WINCOMMAN WASTEWATER	St NM Zip: # Address: Project Owner Goodnight MidStream City: C C C C C 1 1 1 1 1 GROUNDWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER ACID/BASE: Fax #: Phone #: Address: Phone #: ACID/BASE: ACI	# Attn: # Address: Address: Address: Address: State: Zip:	# Address: Address	^ ^ ^ ^ ^ ^ ^ ^ Chloride	## Zip: CESERV. SAMPLING	^	^



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

Company Name: Elech Environmental & Safety Solutions, Inc. Project Manager: Kim Merrill Address: PO Box 301 City: Lovington St NM Zip: # Attn: Phone #: 575 396 2378 Fax #: Address: Project Name: Piper SWD Project Location: Lea Sampler Name: Joel Lowry For I.Jab I.D. Sampler Name: Joel Lowry FOR I.Ja Sampler Name: Joel L
□ Yes TPH



August 29, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 08/23/19 15:35.

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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

A ... - L ... - - - I D. .. MC

Fax To: (575) 396-1429

Received:

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 1 @ SURFACE (H902917-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	0.066	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/28/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	672	10.0	08/28/2019	ND	232	116	200	0.504	QM-07
EXT DRO >C28-C36	192	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 1 @ 4' (H902917-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	45.8	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	12.1	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 2 @ SURFACE (H902917-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	134	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	29.5	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142							
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 2 @ 9' (H902917-04)

Result <0.050 <0.050 <0.050 <0.150	Reporting Limit 0.050 0.050 0.050	Analyzed 08/27/2019 08/27/2019	Method Blank ND ND	BS 1.72 1.93	% Recovery 86.2 96.5	True Value QC 2.00	RPD 2.96	Qualifier
<0.050 <0.050 <0.150	0.050	08/27/2019					2.96	
<0.050 <0.150			ND	1.93	06 E			
<0.150	0.050	00/27/2010			90.5	2.00	2.57	
		08/27/2019	ND	1.98	99.2	2.00	3.86	
	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
<0.300	0.300	08/27/2019	ND					
107	% 73.3-12	9						
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
800	16.0	08/28/2019	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
<10.0	10.0	08/28/2019	ND	232	116	200	0.504	
<10.0	10.0	08/28/2019	ND					
93.1	% 41-142							
	Result 800 mg Result <10.0	mg/kg Result Reporting Limit 800 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 800 16.0 08/28/2019 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 800 16.0 08/28/2019 ND mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 800 16.0 08/28/2019 ND 432 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 800 16.0 08/28/2019 ND 432 108 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 800 16.0 08/28/2019 ND 432 108 400 mg/ky Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 800 16.0 08/28/2019 ND 432 108 400 0.00 mg/ky Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location:

10769

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 3 @ SURFACE (H902917-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	0.061	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	0.196	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					

Surrogate: 4-Bromofluorobenzene ((PID)
-----------------------------------	-------

118 %

73.3-129

Surrogate: 4-Bromojiuorobenzene (P1D	118	% /3.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	3210	10.0	08/28/2019	ND	234	117	200	3.14	QM-07
EXT DRO >C28-C36	938	10.0	08/28/2019	ND					

Surrogate: 1-Chlorooctane

109 %

41-142

Surrogate: 1-Chlorooctadecane

190 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Applyzod By: MC

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

RTFY 8021R

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 3 @ 7' (H902917-06)

BIEX 8021B	mg	/кд	Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	<10.0	10.0	08/28/2019	ND	234	117	200	3.14	
EXT DRO >C28-C36	16.6	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142							
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Analyzed By: MC

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

RTFY 8021R

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location:

10769

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 4 @ SURFACE (H902917-07)

Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier
ND	4 70				Quamici
	1.72	86.2	2.00	2.96	
ND	1.93	96.5	2.00	2.57	
ND	1.98	99.2	2.00	3.86	
ND	6.02	100	6.00	4.76	
ND					
Ву: АС					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	432	108	400	0.00	
Ву: СК					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	227	113	200	0.151	
ND	234	117	200	3.14	
ND					
_	Method Blank ND ND	Method Blank BS ND 227 ND 234	Method Blank BS % Recovery ND 227 113 ND 234 117	By: CK Method Blank BS % Recovery True Value QC ND 227 113 200 ND 234 117 200	By: CK Method Blank BS % Recovery True Value QC RPD ND 227 113 200 0.151 ND 234 117 200 3.14

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301

Applyzod By: MC

Lovington NM, 88260 Fax To: (575) 396-1429

Received:

RTFY 8021R

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - M, 18,21,37

Sample ID: TT - 4 @ 1' (H902917-08)

BIEX 8021B	mg	/ kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	mg/kg		ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	<10.0	10.0	08/28/2019	ND	234	117	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	•						
Surrogate: 1-Chlorooctadecane	120	% 37.6-14	7						

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Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Relinquished By

Time:

Date: 8-23/19

Phone Result:

□ Yes

O O

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

REMARKS: email results to danield@etechenv.com

Page 11 of 11

oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Goodnight Midstream Permian, LLC	· ·	BILL TO		ANALYSIS REQUEST
Project Manager:	: Daniel Dominguez		P.O. #:		
Address: 3100	3100 Plains Hwy		Company: Etech Environmental & Sat		
City: Lovington	ר State: NM	Zip: 88260	Attn: Daniel Dominguez		
Phone #: 575-	575-396-2378 Fax #: 575-396-1429	1429	Address: P.O. Box 301		
Project #: 10769	39 Project Owner:	Goodnight Midstream Per City:	City: Lovington		
Project Name: Piper SWD Fire	Piper SWD Fire		State: NM Zip: 88260		
Project Location:	: "M", 18, 21, 37, Lea		Phone #: 575-396-2378		
Sampler Name:			Fax #: 575-396-1429		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D. 14902971	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chloride TPH	BTEX 8021
	TT-1 @ Surface	G 1 X	X 8/16/19	×	X
2	TT-1 @ 4'	G 1	X 8/16/19	×	×
אל	TT-2 @ Surface	G 1	X 8/16/19	×	×
	TT-2@9'	6 1 X	X 8/16/19	×	×
ľŊ.	TT-3 @ Surface	G 1	X 8/16/19	×	×
c	TT-3 @ 7'	G 1	X 8/16/19	×	×
J-	TT-4 @ Surface	×	X 8/16/19	×	X
8	TT-4 @ 1'	G 1	X 8/16/19	×	×
LEASE NOTE: Liability and nalyses. All claims including envice. In no event shall Car	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. In or eyer shall Cardinal be libe for includeral or consequental damages, including without limitation, business, including without services are received by Cardinal within 30 days after completion of the applicable.	any claim arising whether based in contract deemed waived unless made in writing and g without limitation, business interruptions, I	t or tort, shall be limited to the amount paid by the client for I received by Cardinal within 30 days after completion of the oss of use, or loss of profits incurred by client, its subsidiant	the applicable es,	
Relinquished By:	affiliates of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinqûished By: Phone Res	Received By	n is based upon any of the above stated reasons or otherwise. Phone Result:	sult: ☐ Yes	S □ No Add'l Phone #:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

priche

Sample Condition
Cool Intact
Pes Pes
No No

10

CHECKED BY: (Initials)

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

S. Do

Time:

FORM-006 R 2.0

page 1 of 1



October 23, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 16:41.

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 Hal

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applymed By MC

Fax To: (575) 396-1429

Received: 10/17/2019 Reported: 10/23/2019

10/23/2019

Project Name: PIPER SWD FIRE
Project Number: GOODNIGHT MIDSTREAM - 10769

Project Location: UL M SEC18 T21S R37W

Sampling Date: 10/14/2019

Sampling Type: Soil

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

Sample ID: FLOOR 1 (H903563-01)

DTEV 0021D

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg & treene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 10/17/2019 Reported:

Sampling Date: 10/14/2019

Project Name:

10/23/2019 PIPER SWD FIRE Sampling Type: Soil Sampling Condition: Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By: Jodi Henson

Project Location: UL M SEC18 T21S R37W

Sample ID: FLOOR 2 (H903563-02)

BTEX 8021B	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	147	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	59.6	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	115	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received: 10/17/2019

10/23/2019

Sampling Date:

10/14/2019

Reported:

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: FLOOR 3 (H903563-03)

Result								
court	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
<0.300	0.300	10/19/2019	ND					
100 9	% 73.3-12	9						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	10/22/2019	ND	432	108	400	0.00	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
<10.0	10.0	10/19/2019	ND					
90.6	% 41-142							
102 9	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 100 9 mg/ Result 64.0 mg/ Result <10.0 <10.0 <90.6	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 0.150 <0.300 0.300 T3.3-12 mg/kg Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	 <0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 10/17/2019 Reported: 10/23/2019 Sampling Date: 10/14/2019 Sampling Type: Soil

Project Name:

PIPER SWD FIRE

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

Project Number:

GOODNIGHT MIDSTREAM - 10769

Project Location: UL M SEC18 T21S R37W

Sample ID: FLOOR 4 (H903563-04)

BTEX 8021B	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received: Reported: 10/17/2019

Sampling Date:

10/14/2019

Project Name:

10/23/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

PIPER SWD FIRE

mg/kg

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

Project Number:

GOODNIGHT MIDSTREAM - 10769

Project Location:

UL M SEC18 T21S R37W

Sample ID: FLOOR 5 (H903563-05)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142							
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received: 10/17/2019

Sampling Date: 10/14/2019

Reported: Project Name: 10/23/2019 PIPER SWD FIRE

ma/ka

Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number:

RTFY 8021R

GOODNIGHT MIDSTREAM - 10769

Sample Received By: Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: FLOOR 6 (H903563-06)

B1EX 8021B	mg	/ kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	mg/kg		ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142							
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received: 10/17/2019 Reported:

10/23/2019 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Project Name: Project Number:

BTEX 8021B

GOODNIGHT MIDSTREAM - 10769

PIPER SWD FIRE

mg/kg

Project Location: UL M SEC18 T21S R37W Sampling Date: 10/14/2019

> Cool & Intact Jodi Henson

Sample ID: FLOOR 7 (H903563-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

ma/ka

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number:

GOODNIGHT MIDSTREAM - 10769

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: FLOOR 8 (H903563-08)

BIEX 8021B	mg/l	kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	10/22/2019	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	85.4 %	6 41-142							
Surrogate: 1-Chlorooctadecane	99.2 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received: 10/17/2019 Reported: 10/23/2019 Sampling Date: 10/14/2019 Sampling Type: Soil

Project Name: Project Number: PIPER SWD FIRE GOODNIGHT MIDSTREAM - 10769 Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

ma/ka

Sample ID: FLOOR 9 (H903563-09)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	965	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	239	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	82.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	130	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: FLOOR 10 (H903563-10)

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-129	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	72.4	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	31.5	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

mg/kg

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

UL M SEC18 T21S R37W

Sample ID: FLOOR 11 (H903563-11)

DIEX GOZID	11197	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142							
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 10/17/2019 Sampling Date: 10/14/2019

Reported: Project Name: 10/23/2019 PIPER SWD FIRE Sampling Type: Soil Sampling Condition:

Project Number:

GOODNIGHT MIDSTREAM - 10769

Cool & Intact Sample Received By: Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: FLOOR 12 (H903563-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	88.8 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: NW 1 b (H903563-13)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	92.7 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: NW 2 b (H903563-14)

Result <0.050	Reporting Limit	Analyzed	Method Blank	BS	0/ D	T 1/1 00	DDD	
<0.050				DS.	% Recovery	True Value QC	RPD	Qualifier
	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
<0.300	0.300	10/20/2019	ND					
97.9	% 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
512	16.0	10/22/2019	ND	432	108	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
<10.0	10.0	10/19/2019	ND					
84.9	% 41-142	ı						
103 9	% 37.6-14	7						
	<0.050 <0.050 <0.150 <0.300 97.99 mg/ Result 512 mg/ Result <10.0 <10.0 <84.99	<0.050 <0.050 <0.050 <0.150 <0.300 97.9 % 73.3-12 mg/kg Result Reporting Limit 512 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 41-142	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

GOODNIGHT MIDSTREAM - 10769

09

Project Location: UL M SEC18 T21S R37W

Sample ID: NW 3 b (H903563-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019 10/23/2019 Sampling Date:

10/14/2019

Reported:

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: EW 1 b (H903563-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

PIPER SWD FIRE GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: EW 2 (H903563-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	90.5 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	109 %	6 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: EW 3 (H903563-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	1430	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	408	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	146	% 37.6-14	7						

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Celeg & Freene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: EW 4 b (H903563-19)

B1EX 8021B	mg,	r Kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	1						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Celeg D. Freene



Cool & Intact

Jodi Henson

Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received: 10/17/2019 Reported:

Sampling Date: 10/14/2019 10/23/2019 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Project Name: Project Number:

Sample ID: SW 1 (H903563-20)

BTEX 8021B

GOODNIGHT MIDSTREAM - 10769

PIPER SWD FIRE

mg/kg

Project Location: UL M SEC18 T21S R37W

	91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
	102	0.4	-						

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: SW 2 b (H903563-21)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	98.3	% 41-142							
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

Sample ID: SW 3 b (H903563-22)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: SW 4 b (H903563-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	< 0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	< 0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	107 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: WW 1 b (H903563-24)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	,						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: Reported: 10/17/2019 10/23/2019 Sampling Date:

10/14/2019

Project Name:

mg/kg

Sampling Type:

Soil

PIPER SWD FIRE GOODNIGHT MIDSTREAM - 10769 Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

BTEX 8021B

UL M SEC18 T21S R37W

Sample ID: WW 2 b (H903563-25)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 9	73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	95.19	% 41-142							

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: WW 3 (H903563-26)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

10/17/2019

Sampling Date:

10/14/2019

Reported:

10/23/2019

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

Sample ID: WW 4 (H903563-27)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2019	ND	1.76	87.9	2.00	0.186	
Toluene*	<0.050	0.050	10/23/2019	ND	1.75	87.7	2.00	0.319	
Ethylbenzene*	<0.050	0.050	10/23/2019	ND	1.76	88.2	2.00	0.455	
Total Xylenes*	<0.150	0.150	10/23/2019	ND	5.28	88.1	6.00	0.430	
Total BTEX	<0.300	0.300	10/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2019	ND	209	104	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/22/2019	ND	207	103	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	10/22/2019	ND					
Surrogate: 1-Chlorooctane	95.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Celeg D. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Goodnight Midstream Permian, LLC	.,					BILL	1 70					ANA	ANALYSIS	S RE	REQUEST	T				_
Project Manager:	Daniel Dominguez				Э.	P.O. #:							1	٦	٦	٦	\dashv	\dashv	\dashv	-	L
Address: 3100	3100 Plains Hwy				င	Company:		Etech Environmental & Safety Solutions	ntal & Safety						-			90			
City: Lovington	State: NM	Zip:		88260	At	Attn:	Daniel Do	Daniel Dominguez													
	575-396-2378 Fax #: 575-396-1429	429			Ao	dres	Address: P.O. Box 301	Box 301													
Project #: 10769	9 Project Owner:	600	dnight	Goodnight Midstream Permian, LLC		City:	Lovington	on													
Project Name: F	Piper SWD Fire				St	State: NM		Zip: 88260													
Project Location:	UL/ "M" Sec 18 T21S - R37W				Ph	one	Phone #: 575-396-2378	396-2378													
Sampler Name:	Daniel Dominguez				Fa	*	Fax #: 575-396-1429	1429													
FOR LAB USE ONLY				MATRIX	RIX	PR	PRESERV.	SAMPLING	G												
Lab I.D. H903563	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021		***************************************		-					Ĺ
_	Floor 1	C		×			×	10/14/19	11:57	×	×	×				\exists	\dashv	\dashv	\dashv	\dashv	_
12	Floor 2	C	_	×			×	10/14/19	11:58	×	×	×									
_	Floor 3	C		×			×	10/14/19	11:59	×	×	×									
_	Floor 4	C	_	×			×	10/14/19	12:00	×	×	×									
U	Floor 5	C	_	×			×	10/14/19	12:01	×	×	×									
-	Floor 6	C	_	×			×	10/14/19	12:02	×	×	×									
_	Floor 7	C	_	×			×	10/14/19	12:03	×	×	×									
01	Floor 8	C	-	×			×	10/14/19	12:04	×	×	×									
٥ــ	Floor 9	C	_	×			×	10/14/19	12:05	×	×	×									
10	Floor 10	С	4	×			×	10/14/19	12:06	×	×	×									
PLEASE NOTE: Liability and analyses, All claims including service. In no event shall Car affiliates or successors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicas service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of Whether such claim is based upon any of the above stated reasons or otherwise.	ny claim deemed j withou ardinal,	n arising d waive it limitat	g whether based in d unless made in v tion, business inter sless of whether su	contract or tort, writing and receiv ruptions, loss of ich claim is base	, shall b ved by o use, or	be limited to the Cardinal within Cardinal within r loss of profits any of the ab	ne amount paid by in 30 days after con is incurred by clien sove stated reason	the client for the mpletion of the ap t, its subsidiaries, s or otherwise.	pplicable			S								ı
Relinquished By:	Date: 16 117	R	Cell	Received By:	1				Phone Result:	Ħ	□ Yes	No No	Add'	Add'l Phone #:	#						Ш
Dady S	Time: 4 ;4]	0	7	a.	De	2	Hendon		REMARKS	છ	email r	esult	daniel	anield@ete	chen	v.com					
Relinquished By:	Date:	(SU	ceiv	Received By:																	
/	Time																				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 U Sample Condition
Cool Intact
Yes Yes
No No

Sampler - UPS - Bus - Other: 2,5%

Delivered By: (Circle One)

FORM-006 R 2.0

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

Company Name:	Goodnight Midstream Permian, LLC	nian, LLC		1212	81410				ANALYSIS REQUEST	_
Project Manager:	Daniel Dominguez		P.O. #:	#:			-			is a
Address: 3100	3100 Plains Hwy		Cor	Company: Sol	Etech Environmental & Safety Solutions	& Safety				
City: Lovington	State:	NM Zip: 88260	60 Attn:	1: Daniel Dominguez	minguez					
Phone #: 575-3	575-396-2378 Fax#: 5	Fax #: 575-396-1429	Ado	Address: P.O. Box 301	lox 301					
Project #: 10769	9 Project Owner:		Goodnight Midstream Permian, LLC City:	: Lovington	3					
Project Name: F	Piper SWD Fire		Sta	State: NM Zi	Zip: 88260					
Project Location:	UL/ "M" Sec 18 T21S - R37W	7W	Pho	Phone #: 575-3	575-396-2378					
Sampler Name:	Daniel Dominguez		Fax	Fax #: 575-396-1429	429					
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING					
Lab I.D. H903 %3	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	DATE .	Chloride	TPH	BTEX 8021]
11	Floor 11	C 1	×	×	10/14/19	12:07	×	×		
	Floor 12	0	×	×	10/14/19	12:08	×	×		
	NW1b	0	×	×	10/14/19	12:15	×	×		
ュ	NW2b	C 1	×	×	10/14/19	12:20	×	×		
	NW3b	0	×	×	10/14/19	12:25	×	×		
16	EW1b	C 1	×	×	10/14/19	12:30	×	×		
	EW2	C 1	×	×	10/14/19	12:35	×	×		
20	EW3	0	×	×	10/14/19	12:40	×	×		
191	EW4b	о О	×	×	10/14/19	12:45	×	×		
	SW1	C 1	×	×	10/14/19			×	_	L
PI FASE NOTE: Liability and	SW1 SW1 C 1 X 10/14/19 12:50	C 1	X Ner based in contract or fort.	X shall be limited to	5	10/14/19 the amount paid by the		×	×	×

analyses. All daims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such daim is, based upon any of the above stated reasons or otherwise. Relinquished By: Relinquished By: Delivered By: (Circle One) +,4 Time: 4:41 Date: Date: Time: 10/17 Received By: Phone Result:
Fax Result: REMARKS: email results to danield@etechenv.com □ Yes

N S

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

Sample Condition
Cool Intact
Wes Yes
No No CHECKED BY:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 (/

190

Sampler - UPS - Bus - Other: 2.5%

FORM-006 R 2.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company name:	: Goodnight Midstream Permian, LLC	C					8/1	BILL TO					ANALYSIS REQUEST	
Project Manager:	r: Daniel Dominguez				P.O.	#:	- 1					_		
Address: 310	3100 Plains Hwy				Co.	gg	Company:	Etech Environmental & Safety Solutions	ntal & Safety					
City: Lovington	on State: NM	Zip:	.:	88260	Attn:		Daniel D	Daniel Dominguez						- 110-0
Phone #: 575	575-396-2378 Fax #: 575-396-1429	1429			Ado	dres	ss: P.O.	Address: P.O. Box 301						
Project #: 10769	69 Project Owner:	60	odnigh	Goodnight Midstream Permian, LLC	City:	•	Lovington	on						
Project Name:	Piper SWD Fire				Sta	te:	State: NM	Zip: 88260						
Project Location:	n: UL/ "M" Sec 18 T21S - R37W			ž.	Phone #:	one	#: 575	575-396-2378						
Sampler Name:					Fax	#	Fax #: 575-396-1429	-1429						
FOR LAB USE ONLY				MATRIX		PR	PRESERV.	SAMPLING	ត					
Lab I.D. <i>H903516</i> 3	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	Chloride	ТРН	BTEX 8021		111 452
22	SW2b	C	7				×	10/14/19	12:55	×	×	×		
22	SW3b	C	_	×			×	10/14/19	13:00	×	×	×		
	SW4b	C	_	×			×	10/14/19	13:05	×	×	×		
	WW1b	C	_	×			×	10/14/19	13:10	×	×	×		
25	WW2b	C	_	×			×	10/14/19	13:14	×	×	×		
	WW3	C	_	×			×	10/14/19	13:19	×	×	×		
22	WW4	C	_	×			×	10/14/19	13:24	×	×	×		
PLEASE NOTE: Liability and analyses, All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after compelcion of the a	any clain	n arisin	ng whether based in contract or	tort, s	hall b	e limited to t	he amount paid by	the client for the	bolicable				
analyses. All claims including service. In no event shall C affiliates or successors arisi	anayses, we came including mose for negligence and any other cause whatsoever shall be deemed varied unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal to the label for included experient advances, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutives, affiliates or suppressors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.	deemed g withou Cardinal	t limita	see whatsoever shall be deemed waived unless mead in writing and received by Cardina within 30 deep after completion of the ental damages, including without Intation, businessal interruptions, loss of use, to loss of portis incurred by client, its subsidiant services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.	s of u	d by o se, or upon	Cardinal with loss of profi	in 30 days after co ts incurred by clien bove stated reasor	mpletion of the a t, its subsidiaries s or otherwise.	pplicable				
Relinquished By:	,		Cei	Received By:					Phone Result: Fax Result:	. ut:	□ Yes	□ □ N N	Add'l Phone #: Add'l Fax #:	
Relinguished R	7	20	K	THE	2	6	naon		REMARKS:	138.50	email r	esults to	email results to danield@etechenv.com	
Kelliquistied by.	/: Date:	CZ.	cel	Received By:										

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Pes Pyes
No No

2.90

FORM-006 R 2.0

Sampler - UPS - Bus - Other: 2.50

Delivered By: (Circle One)

Time:



February 14, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 02/12/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 Hal

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: Reported: 02/12/2020 02/14/2020

Project Name: Project Number: PIPER SWD FIRE

Project Location:

10769

UL M SEC18 T21S R37W

Sampling Date:

02/10/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: EW 36 (H000426-01)

TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2020	ND	219	109	200	2.23	
DRO >C10-C28*	<10.0	10.0	02/13/2020	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. *** Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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FORM-006 Revision 1.0

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Page 4 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmenta	Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Lowry		P.O. #:	
Address: P.O. Box 301		Company: Etech	
City: Lovington	State: NM Zip: 88260		
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:	
Project #: 10769	Project Owner: Goodnight Midstream		
Project Name: Piper SWD Fire		State: Zip:	5M)
Project Location: Lea		#	(802
Sampler Name: David Robinson		Fax #:	РН (
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	TP
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	
1 EW 36	X	X 2/10/20	×
LEASE NOTE: Liability and Damages. Cardinal's liability and client's ex- valyses. All claims including those for regilgence and any other cause with the control of the control of the control of control of the control	LEASE NOTE: Liability and Damages. Cardinals liability and client's exclasive renealy for any claim arising whether based in contract criot, shall be limited to the amount paid by the client for the valyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable proces. In no event shall cardinal be label for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidieries, flittless or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	rt, shall be limited to the amount paid by the client for the wed by Cardhal within 30 days after completion of the appl use, or loss of profits incurred by client, its subsidiaries, sed upon any of the above stated reasons or otherwise.	cable
Relinquished By:	Date: Received By:	Phone	Ilt: Yes No
telinguished By:	1.1-6	REMARKS:	Yes
	Time:	Pleas	Please email results to danield@etechenv.com and pm@etechenv.com.
Delivered By: (Circle One)	Sample Condition Cool Intact	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		4	

Appendix D Photographic Log

Photo Number:

1

Photo Direction: South

Photo Description:
View of portion of the excavated area south of the of the salt water disposal containment.



Photo Number:

2

Photo Direction:

West

Photo Description:
View of portion of the
excavated area south of
the of the salt water

disposal containment.



Photo Number:

3

Photo Direction:

West

Photo Description:

View of portion of the excavated area south of the salt water disposal containment.



Photo Number:

4

Photo Direction:

Northwest

Photo Description:

View of portion of the excavated area east of the of the salt water disposal containment.



Photo Number:

5

Photo Direction: South

Photo Description: View of the affected

area outside the salt water disposal containment after backfilling activities.



Photo Number:

6

Photo Direction:

South

Photo Description:

View of the affected area outside the salt water disposal containment after backfilling activities.



Photo Number:

7

Photo Direction: South

Photo Description:

View of the affected area outside the salt water disposal containment after backfilling activities.



Photo Number:

8

Photo Direction:

North

Photo Description:

View of initial surface scrape after removal of tank battery and equipment



Photo Number:

9

Photo Direction:

Southeast

Photo Description:

View of portion of the open excavation beneath the former salt water disposal containment.



Photo Number:

10

Photo Direction:

South

Photo Description:

View of portion of the open excavation beneath the former salt water disposal containment.

