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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?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	✓ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
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				
<ul> <li>☑ Boring or excavation logs</li> <li>☑ Photographs including date and GIS information</li> </ul>				
✓ 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	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 Tijorina	Date: 3/16/2020		
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964		
OCD Only			
Received by: Cristina Eads	Date:03/25/2020		

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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 b	e included in the plan.			
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>✓ Proposed schedule for remediation (note if remediation plan tin</li> </ul>	12(C)(4) NMAC			
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name: Ralph Tijerina  Title: Director EHS				
Signature: Ralph Tigerina	Date: 03/24/2020			
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964			
OCD Only				
Received by: Cristina Eads	Date: 03/25/2020			
☐ Approved ☐ Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature: Justures	Date: 04/28/2020			

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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 <b>not</b> on an exploration, development, production, or storage site?	✓ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
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				
✓ 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 Tizerina	Date: 3/16/2020		
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964		
OCD Only			
Received by:	Date:		

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

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	included in the plan.		
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.13</li> <li>✓ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	2(C)(4) NMAC		
Deferral Requests Only: Each of the following items must be conjugated	firmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health.	the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Ralph Tijerina	Title: Director EHS		
Printed Name: Ralph Tijerina  Signature: Ralph Tijerina	Date: 03/24/2020		
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964		
OCD Only			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of A	Approval		
Signature:	Date:		

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**

- Figure 1 Topographic Map
- Figure 2 Aerial Proximity Map
- Figure 3a Site & Sample Location Map (Pasture)
- Figure 3b Site & Sample Location Map (Containment)

# **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								
	Provide	ed GPS are in WGS84 format.									
Site Name:	Penroc State E	Site Type:	SWD								
Date Release Discovere	ed: 12/22/2018	API # (if applical	ble): 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)	5	Volume Recovered (bbls) 4								
X Produced Water	Volume Released (bbls)	595	Volume Recovered (bbls) 594								
	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								
Cause of Release: The release was attribu	I uted to a filter having a blocka	age which caused a ba	ack-up of fluid flowing out of the top.								
	Ir	nitial Response									
	elease has been stopped.  nas been secured to protect hum	nan health and the envi	ronment.								
	recoverable materials have bee		orbent pad, or other containment devices ed appropriately.								

	Locatio	on of Release Sou	rce							
Latitude:	32.47259	Longitude:	-103.20721							
	Pro	ovided GPS are in format.								
Site Name: Penroc State E (Piper SWD) Site Type: SWD  Date Release Discovered: 6/24/2019 API # (if applicable): 30-025-26491										
Date Release Discovere	ed: 6/24/2019	ble): 30-025-26491								
Unit Letter Sec	etion Township	Range	County							
M	18 21S	37E	Lea							
Surface Owner: X Sta		Private (Name of Re	·							
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)							
X Produced Water	Volume Released (bbls)	400	Volume Recovered (bbls) 355							
	Is the concentration of dissol 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							
			ne release was confined to within the lined nt.							
	Ir	nitial Response								
X The source of the r	elease has been stopped.									
X The impacted area h	nas been secured to protect hum	an health and the envi	ronment.							
X Release materials h	ave been contained via the use	of berms or dikes, abs	orbent pad, or other containment devices							
X All free liquids and	recoverable materials have been	n 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								

# 4.0 INITIAL SITE ASSESSMENT

During initial response activities, free-standing fluid was removed utilizing a vacuum truck and the Site was stabilized.

On June 25 and 26, 2019, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP #1 through SP #10) were advanced within the affected area outside the lined containment in an effort to characterize soil impacts. In addition, one (1) hand-augered soil bore (SP #11) was advanced outside the inferred edges of the affected area in an effort to determine background conditions at the site. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Upon conducting the initial site assessment, remediation activities commenced at the release site. Impacted soil outside of the tank battery containment area was excavated and stockpiled on-site, pending disposition at an NMOCD-approved disposal facility. The floor and sidewalls of the excavated area were advanced until laboratory analytical results from excavation confirmation soil samples indicated impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard had been removed. The uppermost 4 Ft. was advanced until laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Reclamation Standard. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

On July 11 and 12, 2019, Etech collected fifteen (15) excavation confirmation soil samples (A2, A3, A4, B1, B2, B3, B4, C1, C2, C3 C4, D3, D4, E5 and E6) from the floor of the excavated area south of the salt water disposal facility. 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 Reclamation Standard in each of the submitted soil samples.

In addition, eleven (11) excavation confirmation soil samples (NSW #1, NSW #2, ESW #1, ESW #2, SSW #1, WSW #1, WSW #2, Exc. B NSW, Exc. B ESW, Exc. B SSW and Exc. B WSW) 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 concentration were below the NMOCD Closure Criteria and/or Reclamation Standard in each of the submitted soil samples with the exception of soil samples NSW #2 and Exc. B WSW, which exhibited chloride concentrations of 4,800 mg/kg and 15,200 mg/kg, respectively. Further excavation of impacted soil in the areas characterized by soil samples NSW #2 and Exc. B WSW was precluded due to the presence of the salt water disposal containment.

Upon receiving laboratory analytical results from excavation confirmation soil samples collected from the affected area outside of the salt water disposal containment, the excavated area was backfilled with locally sourced, non-impacted "like" material. Excavation backfill was compacted to facilitate the use of a crane to decommission the salt water disposal facility.

Upon removing the remaining equipment from within the salt water disposal containment area, the liner was removed to investigate the underlying soil. During the soil investigation, four (4) test trenches (TT-1 through TT-4) were advanced within the former containment area in an effort to determine the vertical extent of soil impacts. During the advancement of the test trenches, eight (8) delineation soil samples (TT-1 @ Surf., TT-1 @ 4', TT-2 @ Surf., TT-2 @ 9', TT-3 @ Surf., TT-3 @ 7', TT-4 @ Surf., and TT-4 @ 1') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or Reclamation Standard beyond 4 Ft. bgs in the areas characterized by test trenches TT-1 and TT-4. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Upon discovering impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard beneath the former tank battery facility, the uppermost 4 Ft. of the affected area was excavated. The excavation was advanced toward the

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

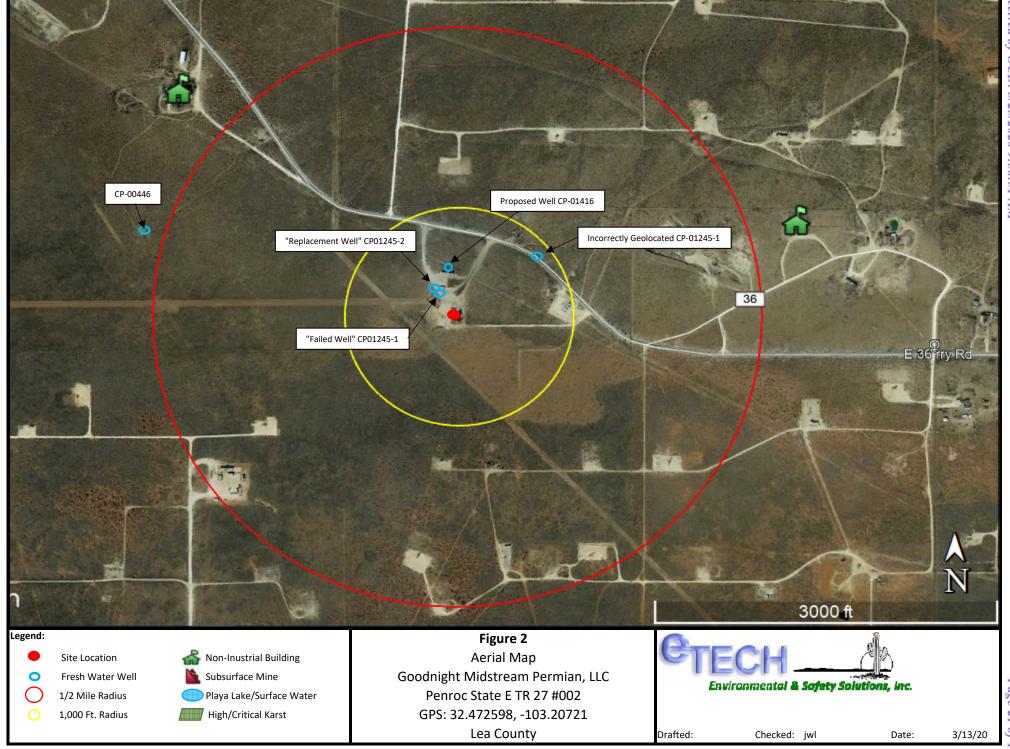
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Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

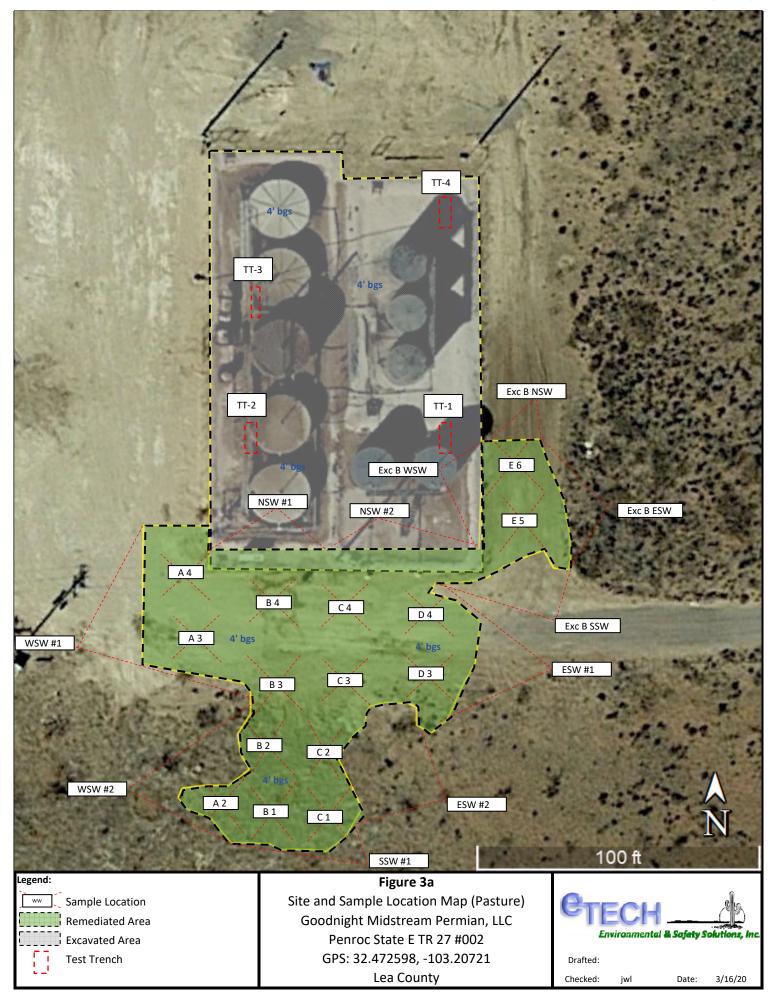
(Electronic Submission)

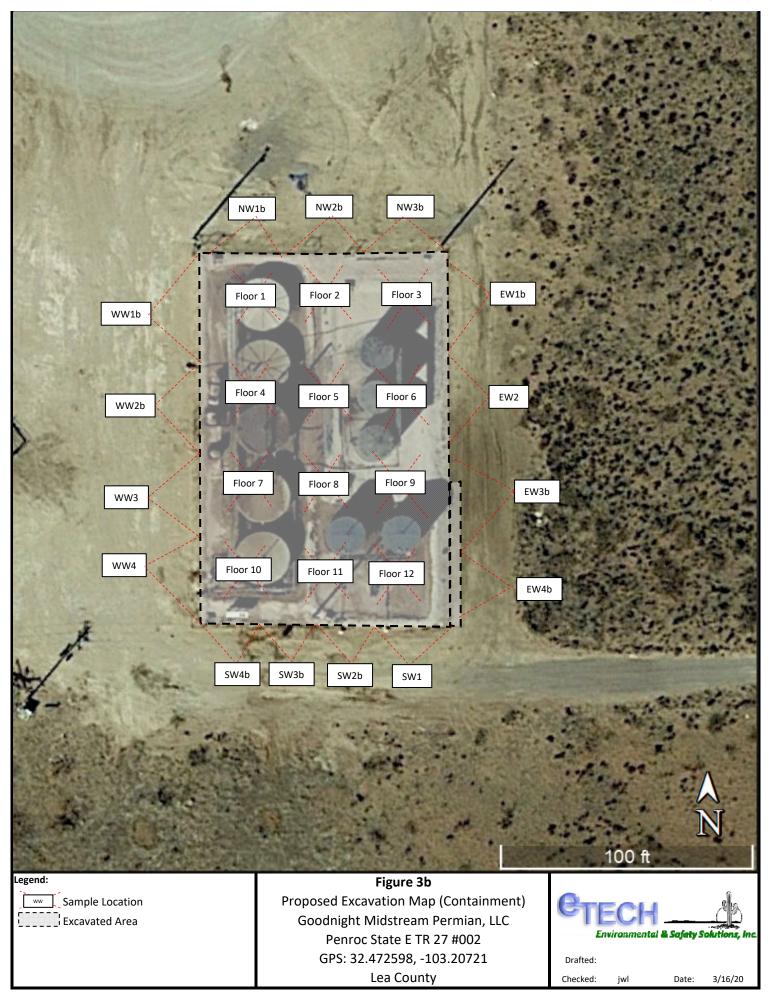
# Figure 1 Topographic Map

# 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

# Goodnight Midstream Permian, LLC

Penroc State E TR 27 #002

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

Г			11111	OCD Ref.		3310 & 11		046004535	-		1500 67
				SW 840	6 8021B		SW	846 8015M GRO +	Ext.	1	4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	TPH	Chloride
				(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub>	C <sub>10</sub> -C <sub>28</sub>	C <sub>6</sub> -C <sub>28</sub>	C <sub>28</sub> -C <sub>36</sub>	C <sub>6</sub> -C <sub>36</sub>	(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
В4	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
l											
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
Exc. B WSW	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	672	672	192	864	4,800
TT-1		4'									
	8/16/2019		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			Excavated		< 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
11 '	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 In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NW1b	10/14/2019	2'	In-Situ In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
		2'									
NW2b	10/14/2019		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	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW2b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
SW4b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW1b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
WW2b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
WW3	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,180
WW4	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
										1	2,240
EW3b	2/10/2020	2'	In-Situ	10		<10.0	<10.0	<20.0	<10.0	<30.0 <b>100</b>	600
	Closure Ci			1/1	50	1	_	N/A			

- = 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)

		Sub-		Q	Q Q								W	/ater
POD Number	Code	basin	County	64	16 4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDep	othWater Co	lumn
<u>CP 01245 POD1</u>		CP	LE		4	18	21S	37E	668676	3594411 🌕	265	220		
<u>CP 00446 POD1</u>		CP	LE	1	4 4	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

UTMNAD83 Radius Search (in meters):

**Easting (X):** 668475

**Northing (Y):** 3594237

Radius: 880

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

<sup>\*</sup>UTM location was derived from PLSS - see Help



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National Water Information System: Web Interface

**USGS Water Resources** 

Data Category: Groundwater 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 measurem
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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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 measurem
1967-10-10		D	150.88			2	2	l	J	
1968-03-19		D	150.97			2	2	l	J	
1970-12-15		D	151.85			2	2	P l	I	

### 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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# 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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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-J	JI-19	
Project:	Piper SWD Fire					
Project Number:	10769	Latitude:	32.472598	Longitude:	-103.20721	
r roject ramber.			32.172330	Eorigitade.	100.20721	
Double (ft. boss)			0-	!		
Depth (ft. bgs)	I Tanaail		De	scription		
1	Topsoil					
2						
3						
TD 4						
5	Caliche					
6						
7						
8						
9						
10						
11						
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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
77-107'	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	<b>X</b> ()	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 · · · · · · · · · · · · · · · · · ·
17-3 P5'	Slight	1348	b. 60
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'	Nove	236	t. 'Y
77-60u'	None	2,572	32,47244, -103,767.23
77-600'	× 1	1,804	, 103,207
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

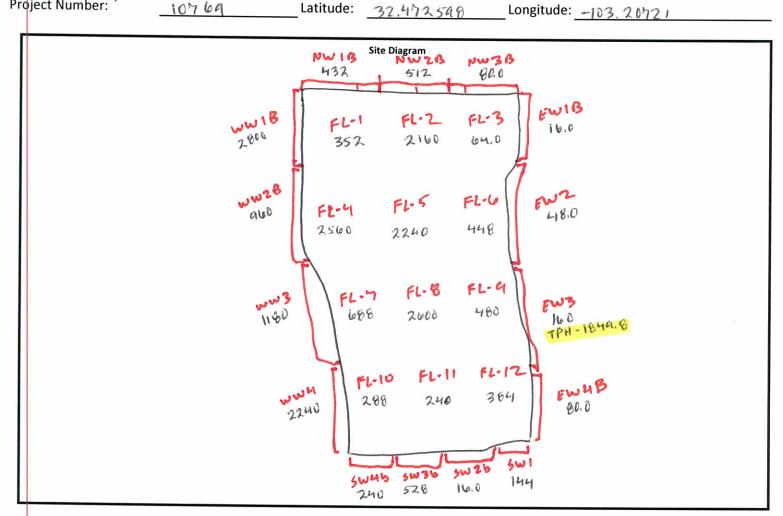
**GPS Sample Points, Center of Comp Areas** 



Environmental & Safety So.	lutions, Inc.			Date:	8/10/2010	<b>'</b> 1
roject: roject Number:	Piper SWD Fire 10769	Latitude:	Clean Up Level: 32.472598	Longitude:	-103.2	
			Site Diagram			
	1	-				
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Notes: Dal' a	F 401 7 .	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)		Date:	10/11/19	
Project: Piper SWD Fire	Clean Up Lev	el:		
Project Number: 10769	Latitude: 37,472.57	a 9 Longitud	e: -103 7 Nh7 1	



Notes: Excavate Chronicle Inpacted Sidewalls  Chloricle Lab legalls in Black Ink  TPH bood on all Sample of exception of Eu.3 blatolog is over Chloride to East i South 2400 (leglaination Standard)  Chloride on West Can be up to 20,000 ppm  *Length: "Width: "Area: "Depth:  Yes No	_							
Chloride Lab lesults in Black Ink  TPH bood on all Sample and exception of the 3 620-1020 is over Chloride to East I South 2400 (leclaimation Standard)  Chloride on West Can be up to 20,000 ppm  *Length: "Width: "Area: "Depth:	i	Notes:	Excavate Chiaride 2	reported Sidewalls				
The bood on all Sample of exception of the 3 GRO-DRO is over Chloride to East 1. South 2400 (Reclaimation Standard)  Chloride on west Can be up to 20,000 ppm  *Length: "Width: "Area: "Depth:			Chloride Lab Resul	ts in Black Tule				
Chloride on West Can be up to 20,000 ppm			TPH bood on all	Sandle WI PALOD	How of FW3 60114	000 15	11,001	
			Chloride to East	1. South 6400 (8	eclaination Stanlard)	K-15-1-1-2	D-SEL-1	1
~Length: ~Width: ~Area: ~Depth:			Chloride on west	can be us to	20,000 ppm			1
, i.eu. Deptii.							,	1
, i.eu. Deptii.								
, i.eu. Deptii.								
Yes No	~	Length:	~Width:	~Area:	~Depth:			
						Yes	No	

Yes Not 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?

e-	TECH &	10
	Environmental & Safety Solution	ns, Inc.

			•			Date:	3/13/200	LU	
Projec Projec	ct: ct Num	Piper 5	<u> 10769</u>	 Latitude:	Clean Up Level:	Longitude:	-103.207	2.1	
					32.91739		103. 207	2)	
		wen with	h Meler	Failed well"  Ary ein 1005  Noure	Nucles Sample	L Water To			
	<u>}</u>	huntioni Hussed f	omer well	-, banged de	s No 10081s), n y to 141 ft Sh Waler Tanks				
~Le	ngth:		~Width:	~Area:		~Depth:	v		
3./	Renres	entative Die	tures of the Aff	facted Area includin	g sample locations?		Yes	No	
			eld Screened an		ig sample locations?				
				d on ice? d on Sample Log?					
			rtical delineatio						
vvd	3 110/120	ontai allu ve	i ticai delineatio	on acmeved?					

# 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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		Analyzed 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	,						
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

### Cardinal Laboratories

\*=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:

07/16/2019

PIPER SWD FIRE

GOODNIGHT MIDSTREAM - LEA CO NM

Project Name: Project Number:

Reported:

10769

Project Location:

07/12/2019

Sampling Date:

07/11/2019

Sampling Type:

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Soil

### 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	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	72.5	% 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:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

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 %	6 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	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	61.0 9	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: Project Name: 07/16/2019 PIPER SWD FIRE

mg/kg

72.1 %

37.6-147

Sampling Type:

Soil

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

Project Number:

BTEX 8021B

10769

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 1 (H902410-04)

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, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	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	ı						

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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: 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 %	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	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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.19	% 37 6-14	7						

76.1 % Surrogate: 1-Chlorooctadecane 37.6-147

Cardinal Laboratories \*=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 3 (H902410-06)

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, SM4500CI-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

Analyzed Ry: me

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

Received:

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

### Sample ID: B 4 (H902410-07)

B1EX 8021B	mg	/ <b>kg</b>	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, 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	07/15/2019	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	ı						
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 %	6 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	96.0	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	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	105 %	% 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:

BTEX 8021B

07/12/2019

Sampling Date:

07/11/2019

Reported:

07/16/2019

Sampling Type:

Soil

Project Name:

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: C 2 (H902410-09)

		9							
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, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	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	105	% 41-142	?						
			_						

Analyzed By: ms

Surrogate: 1-Chlorooctadecane

104 %

37.6-147

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Celey D. Keine

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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 10769

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 3 (H902410-10)

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	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 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	102 %	6 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:

PIPER SWD FIRE

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

### Sample ID: C 4 (H902410-11)

BIEX 8021B	mg	/ <b>kg</b>	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, SM4500CI-B	mg,	/kg	Analyzed 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:

PIPER SWD FIRE

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

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	Analyzed 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	!						
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:

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: Project Location:

10769

Sample Received By: GOODNIGHT MIDSTREAM - LEA CO NM

Tamara Oldaker

Sample ID: D 4 (H902410-13)

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	% 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	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						

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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 10769

ma/ka

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

Project Number: Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: E 5 (H902410-14)

BIEX 8021B	mg	/кд	Analyze	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	64.0	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	100	% 41-142	?						
Surrogate: 1-Chlorooctadecane	100	% 376-14	7						

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories \*=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 Reported: 07/16/2019

Project Name: PIPER SWD FIRE

Project Number: 10769

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM Sampling Date: 07/11/2019

Sampling Type: Soil

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

### Sample ID: E 6 (H902410-15)

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	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, 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	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	96.9 9	% 41-142							
Surrogate: 1-Chlorooctadecane	97.9 9	37.6-14	7						

### 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

Page 18 of 19

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		10	ARI	T
Etech Environmental & Safety Solutions,	(575) 393-2326 FAX (575) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES	

			**************************************	ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address: P.O. Box 301		Company: F - +pn/			
City: Lovington	State: NM Zip: 88260	(	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:			
Project #: (0) \ (0 9	Project Owner: Goodnight	City:			
-Swp	Fire Midsham	State: Zip:	5M)		
Project Location: Lea Count		Phone #:	orid 801 (802		
Sampler Name: Hilda Villa		Fax #:	H (		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	TP		
	RS				
Lab I.D. Sample I.D.	E)RAB OR CONTAINI ROUNDW. ASTEWAT OIL LUDGE	THER : CID/BASE: EE / COOL THER :	=	20	
1 AZ		1 3 -11-4			
3	2	(9):	8 27 7		
3 AF	22	シーナース	1.15 1/1/1		
15	2	V) 7-11-19 1:	18 2/ /		
2 8 8	<i>V</i> , <i>V</i>	V 7-11-19 1:	7 / / 22:		
600	21	1 5-11-6 /	30 21		
200	7 1 0	V 7-11-19 1:	45 / V /		
801	21 0	4-11-19 1:	50 2 11		
-		13 61-11 4 6	00 / // //		
PLEASE NOTE:   inhility and Damages: Cardinal's lightifus and place.	C C	V 7-11-93:	35 / 1/ 0		
analyses. All claims including those for negligence and any other or service. In no event shall Cardinal be liable for incidental or consequences.	analyses. All claims including those for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, for 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.	snail be limited to the amount paid by the client for the d by Cardinal within 30 days after completion of the a se, or loss of profits incurred by client, its subsidiaries	ne applicable s.		
Relinquished By:  Date: //	Date: / Received By:	Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Received By:  Phol	ne Result: ☐ Yes ☐		
Matur	14:22	Fax REN	Yes	No Add'l Fax #:	
remidusied by.	Time: Keceived By:	(			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	Please email results to danie	results to danield@etechenv.com	
	Cool Intact				
Sampler - UPS - Bus - Other:	1.4e #g7 Pres Pres	1			

FORM-006 Revision 1.0

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

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, I

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 :		
H102410	# C GR WA SO	ACI ICE	TIME / /	
1 04	V, I	V 7-11-19 2	1 1 1 0 0 12	
72 03	2	3 61-11-£	がたノファ	
13 <b>D</b> 4	2	7-11-19 2	250 // \\ \/ \/ \/	
1455	7	2 W-11-4/0	2:55 1/1/1/	
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 otherwises	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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions KIM MERRILL

Analyzed By: ms

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

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

10769

Sample Received By:

Tamara Oldaker

Project Location:

BTEX 8260B

GOODNIGHT MIDSTREAM - LEA CO NM

### Sample ID: NSW # 1 (H902418-01)

91	9	,						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
<0.150	0.150	07/16/2019	ND					
97.0	% 90.4-11	1						
98.7	% 85.3-11	4						
91.5	% 80.1-12	1						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
112	16.0	07/16/2019	ND	416	104	400	0.00	
mg,	/kg	Analyze	07/16/2019 ND Analyzed By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
<10.0	10.0	07/16/2019	ND					
<10.0 74.8			ND					
	Result <0.025 <0.025 <0.025 <0.075 <0.150  97.0  98.7  91.5  mg,  Result  112  mg,  Result <10.0	<0.025	Result         Reporting Limit         Analyzed           <0.025	Result         Reporting Limit         Analyzed         Method Blank           <0.025	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.025	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.025	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.025	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.025

### 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:

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)

DILX 0200D	ilig	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	99.6	% 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	ed 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	07/16/2019 ND  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	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

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\*=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: Sample Received By: Cool & Intact Tamara Oldaker

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

### Sample ID: ESW # 1 (H902418-03)

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	98.9	% 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	Analyzed 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	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	60.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	71.4	% 37.6-14	7						

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\*=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, 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	07/16/2019	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

\*=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: SSW # 1 (H902418-05)

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	99.1	% 90.4-11	1						
Surrogate: Toluene-d8	98.0	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.8	% 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	64.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	07/16/2019 ND  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	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						

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: WSW # 1 (H902418-06)

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	07/16/2019 ND  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	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

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:

BTEX 8260B

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	07/16/2019 ND  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	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

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\*=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:

BTEX 8260B

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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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

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	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.4	% 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	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

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\*=Accredited Analyte

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### Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

F.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

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)

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	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	352	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	56.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.5	% 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

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: EXC. B WSW (H902418-11)

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	101	% 90.4-11	1						
Surrogate: Toluene-d8	99.4	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.2	% 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	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						

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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 1

Sampler - UPS - Bus - Other:

3.60

Time: / 7:12

Sample Condition

CHECKED BY:

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

Cool Intact
Pres Pres
No No

(Initials)

Date; 1/5/19

Received By:

Date:
7[15] 19
Time:
10:08

Received By

Phone Result:
Fax Result:
REMARKS:

□ Yes

O O

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

FORM-006 R 2.0

Defivered By: (Circle One)

service. In no event shall Cardinal be liable for incidental or cors affiliates or successors arising out of or related to the performan Relinquished By:

# Laboratories Laboratories

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

Company: Etech		
4		
SAMPLING		
DATE TIME Chloride	TPH BTEX 8021	
7/12/19   10:15 ×	Ţ	
7/12/19   io:   7	×	
7/12/19 10:25 ×	×	
7/12/19 to: <b>7</b> ) ×	×	
7/12/19 10: 30 ×	×	
7/12/19 10:70 ×	×	
27:37		
10:35		
× 85:016		
TIME TIME   0:15   0:15   0:25   0:75   0:75   10:76   10:35   10:35   10:35   10:38   10:38	Chloride	× × × × × × × × × × TPH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	ì	Page	79 oj	of 15
(57	101	La		Page 15 of 15
(575) 393-2326	East Marland, Hobbs,	bora	RD	
6 FAX (575	ıd, Hobbs,	ator	Z	
FAX (575) 393-2476	NM 88240	Sal	AL	
2476	3240	S		

Company Name:	Etech Environmental & Safety Solutions, Inc.	tal & Safety Solut	ions,	Inc.									00	BILL TO						윌	⊈	اێ	<u></u>	찓		اڃ	ANALYSIS REQUEST	ᅦ							
Project Manager:	Kim Merrill									P.O.	0.#:	"						4								1	_];	1		7		$\neg$		7	丄
Address: PO Box 301	» 301	***************************************								င္ပ	Company:	an	·:	Etech																					
City: Lovington	gton	St NM	Zip:	••	#					Attn:	Ξ.			Control of the Contro																					_
Phone #: 575 39	575 396 2378	Fax #:								Ad	Address:	SS																							
Project #:	10769	Project Owner Goodnight MidStream City:	GO.	odn	igh	Ž	Spi	tre	am	C	Υ.																								
Project Name:	Piper SWD	***************************************								Sta	State:			Zip:																					
Project Location:	8				- Carlo			The second second		Ph	Phone #:	#																							
Sampler Name:	Joel Lowry									Fa	Fax #:																								_
FOR LAB USE ONLY							MATRIX	꼾	L		뀖	띪	PRESERV	SAMPLING	ด็																				
Lab I.D.	Sample I.D.	.D.	(G)RAB OR (C)OMP.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		TIME	Chloride	ТРН	BTEX 8021																	
// Exc.	c. B WSW		ဂ									×		7/12/19	10:40 ×			×																	
EASE NOTE: Liability and Dau alyses. All claims including thos notce. In no event shall Cardina lilates or successors arising out	LEASE 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 valyess. 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 proces. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of upon the source of profits incurred by client, its subsidiaries, the subsidiaries arising out of or related to the performance of services hereurder by Cardinal incardings, whether such claim is based in mon and of the shore stated monages.	nt's exclusive remedy for an ause whatsoever shall be de uental damages, including w of services hereunder by Co	claim a claim a emed w ithout lin irdinal, r	rising in item item item item item item item item	wheth inless to, busi	made made	ed in winder su	contra iting a ptions	ind or	of us	by C	ardin oss o	ited to	the amount paid b hin 30 days after co fits incurred by clien	y the client for the mpletion of the app	licable		-	_		_		-		_	- 1	<u> </u>								_
Celinquished by:	357	Date: 7/1/5/19 Received By: Fax Result Fax Result REMARKS:	Rec	A S	M &	Z š		)	-	11	3	1	0		Phone Result: Fax Result: REMARKS:		□ Yes	□ □ No		dd	Add'l Phone #: Add'l Fax #:	# NO	#												
Telinquished By:  The state of	Circle One)	Date: //5//9 Time: /4:/2	Received By:  MMG Samı	eiv	S ed I	By:  Waka de Sample Condition	T T	on on	R	1 BE	Ill s	芸の川。	SC P	CHECKED BY:	Please e	email	results to	Please email results to pm@etechenv.com, danield@etechenv.com and joel@etechenv.com	e C	N.02	) E	da	<u>e</u>	@et	ECT.	env.	con	n an	<u>2</u>	e Q	)ete	che	nv.c	mo	
Sampler - UPS - Bus - Other:	sus - Other:	3.6°	to	10		Cool Intact Ares Ares No No No	6 8 =		S es		-1	-	JO E	(Infitials)																					

FORM-006 R 2.0



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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

10769

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	% 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	% 376-14	17						

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories \*=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:

08/23/2019

Sampling Date:

08/16/2019

Reported:

08/29/2019

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 - M, 18,21,37

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

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, 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	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					

Analyzed By: MS

Surrogate: 1-Chlorooctane 90.9 % 41-142 Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

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:

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 - 2 @ SURFACE (H902917-03)

BTEX 8021B	mg,	/kg	Analyze	ed 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	% 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	3040	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	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	% 37.6-14	7						

Cardinal Laboratories

\*=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:

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)

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	107 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	800	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*	<10.0	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	<10.0	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	100 9	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: 08/23/2019 Reported:

08/29/2019 Project Name: PIPER SWD FIRE

Project Number: 10769

Project Location: GOODNIGHT MIDSTREAM - M, 18,21,37 Sampling Date: 08/16/2019

Sampling Type: Soil

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

### 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 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	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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	190	% 37 6-14	7						

190 % Surrogate: 1-Chlorooctadecane 37.6-147

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Celey D. Keine



### 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 - 3 @ 7' (H902917-06)

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	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	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 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	114 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:

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 @ SURFACE (H902917-07)

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	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, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	<10.0	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	115 9	6 37.6-14	7						

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\*=Accredited Analyte

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08/16/2019

Tamara Oldaker

### 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 Reported:

08/29/2019 Sampling Type: Soil Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: PIPER SWD FIRE Project Number: 10769

Project Location: GOODNIGHT MIDSTREAM - M, 18,21,37

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

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	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 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	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	<10.0	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	120 9	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

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Celey D. Keine

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

## 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	5		BILLIO			ANALYSIS REQUEST
Project Manager:	: Daniel Dominguez		P.O. #:				
Address: 3100	3100 Plains Hwy		Company:	Etech Environmental & Sa	& Sat		
City: Lovington	n State: NM	<b>Zip:</b> 88260	Attn: Daniel Dominguez	Dominguez			
Phone #: 575-	575-396-2378 Fax #: 575-396-1429	5-1429	Address: P.O. Box 301	O. Box 301			
Project #: 10769	39 Project Owner:	Goodnight Midstream Per City:	eam Per City: Lovington	gton			
Project Name:	Piper SWD Fire		State: NM	Zip: 88260			
Project Location:	: "M", 18, 21, 37, Lea		Phone #: 57	575-396-2378			
Sampler Name:			Fax #: 575-396-1429	96-1429			
FOR LAB USE ONLY			MATRIX PRESERV.	/ SAMPLING			
Lab I.D. 14902917	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	m Chloride	TPH BTEX 8021	
	TT-1 @ Surface	ര 1	×	8/16/19	×	×	And the second s
2	TT-1 @ 4'	G 1	×	8/16/19	×	×	
	TT-2 @ Surface	ж е	×	8/16/19	×	×	
۴	TT-2@9'	G 1	×	8/16/19	×	×	
ν,	TT-3 @ Surface	G 1	×	8/16/19	×	×	
6	TT-3 @ 7'	6 1	×	8/16/19	×	×	
J-	TT-4 @ Surface	ഒ 1 ×	×	8/16/19	×	×	
8	ТТ-4 @ 1'	6 1 ×	×	8/16/19	×	×	
PLEASE NOTE: Liability and	PLEASE NOTE: Liability and Damages. Cardina'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	for any claim arising whether based	in contract or tort, shall be limited	to the amount paid by the clic	ent for the		
analyses. All claims including service. In no event shall Ca	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 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,	I be deemed waived unless made in ding without limitation, business inte	writing and received by Cardinal variations, loss of use, or loss of p	vithin 30 days after completion rofits incurred by client, its sub-	of the applicable sidiaries,		
Relinquished By:		Date: (2) 3 (2) Received By	7	Phon	ult:	□ Yes □	□ No Add'I 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

PIPER SWD FIRE

Project Name: 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)

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	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	?						
Surrogate: 1-Chlorooctadecane	95.4	% 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: Reported:

10/17/2019 10/23/2019 Sampling Type:

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

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

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

### Sample ID: FLOOR 2 (H903563-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	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, SM4500CI-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						

Cardinal Laboratories \*=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:

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: FLOOR 3 (H903563-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	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	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	64.0	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	90.6	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 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:

10/23/2019 PIPER SWD FIRE

ma/ka

Sampling Condition: Soil Soll & Intact

Project Number:

RTFY 8021R

GOODNIGHT MIDSTREAM - 10769

Sample Received By: Jodi Henson

Project Location: UL M SEC18 T21S R37W

### Sample ID: FLOOR 4 (H903563-04)

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit  0.050  0.050  0.050  0.150	Analyzed 10/19/2019 10/19/2019 10/19/2019	Method Blank  ND  ND  ND	BS 1.81 1.81	% Recovery 90.5 90.4	True Value QC 2.00 2.00	RPD 9.55 9.40	Qualifier
<0.050 <0.050 <0.150	0.050 0.050	10/19/2019	ND	1.81				
<0.050 <0.150	0.050	10/19/2019			90.4	2.00	9.40	
<0.150			ND				5.10	
	0.150	10/10/2010		1.80	90.1	2.00	9.42	
< 0.300		10/19/2019	ND	5.38	89.6	6.00	9.46	
	0.300	10/19/2019	ND					
98.3	% 73.3-12	9						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2560	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					
83.6	% 41-142							
92.6	% 37.6-14	7						
	98.3 mg/ Result 2560 mg/ Result <10.0 <10.0 <83.6	<0.300 98.3 % 73.3-12 mg/ky Result Reporting Limit 2560 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0  83.6 % 41-142	<0.300       0.300       10/19/2019         98.3 % 73.3-129         mg/ky       Analyzed         2560       16.0       10/22/2019         mg/ky       Analyzed         Result       Reporting Limit       Analyzed         <10.0	<0.300       10/19/2019       ND         98.3 % 73.3-129         Method Blank         Result Reporting Limit Analyzed Method Blank         2560 16.0 10/22/2019 ND         Method Blank         Result Reporting Limit Analyzed Method Blank         <10.0 10.0 10/19/2019 ND	<0.300       0.300       10/19/2019       ND         98.3 % 73.3-129         mg/ky       Analyzed By: AC         Result Reporting Limit Analyzed By: MS         Result Reporting Limit Analyzed Method Blank BS         <10.0	<0.300       10/19/2019       ND         98.3 % 73.3-129         mg/ky       Analyzed By: AC         Result Reporting Limit Analyzed By: MS       % Recovery         Result Reporting Limit Analyzed Method Blank BS % Recovery         <10.0	<0.300       0.300       10/19/2019       ND         98.3 % 73.3-129         mg/kg       Analyzed By: AC         Result Reporting Limit Analyzed Discovery       Method Blank Analyzed By: MS       BS MR Recovery       True Value QC         Result Reporting Limit Analyzed Method Blank BS MR Recovery       True Value QC         <10.0	< 0.300       10/19/2019       ND         98.3 % 73.3-129         mg/kg       Analyzed By: AC         Result Reporting Limit Analyzed Method Blank BS % Recovery       True Value QC RPD         2560 16.0 10/22/2019 ND 432 108 400 0.00         mg/kg       Analyzed By: MS         Result Reporting Limit Analyzed Method Blank BS % Recovery       True Value QC RPD         <10.0 10.0 10/19/2019 ND 205 103 200 5.85

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Celey D. Keine



### 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 Date: Sampling Type:

Sampling Condition:

Sample Received By:

Project Name: Project Number:

BTEX 8021B

GOODNIGHT MIDSTREAM - 10769

PIPER SWD FIRE

mg/kg

10/14/2019 Soil

> Cool & Intact Jodi Henson

Project Location:

UL M SEC18 T21S R37W

### Sample ID: FLOOR 5 (H903563-05)

DIEX GOZID	iiig/	, 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	10/19/2019	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	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

Fax To: (575) 396-1429

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

10/14/2019

Project Name:

Sampling Type:

Soil

PIPER SWD FIRE

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

Project Number: Project Location:

UL M SEC18 T21S R37W

GOODNIGHT MIDSTREAM - 10769

Sample ID: FLOOR 6 (H903563-06)

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	1.81	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/	/kg	Analyze	d 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	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	88.1	% 41-142	?						
Summanta 1 Chlous atadasana	07.0	0/ 27 6 1 4	7						

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

Cardinal Laboratories \*=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: 10/17/2019 Sampling Date: 10/14/2019

Reported: 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 7 (H903563-07)

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	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 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 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	99.9	37.6-14	7						

### Cardinal Laboratories

\*=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:

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

10/14/2019

Reported: Project Name: 0/23/2019

mg/kg

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - 10769 UL M SEC18 T21S R37W

Sample ID: FLOOR 8 (H903563-08)

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 9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B  Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			<u> </u>		BS 432	% Recovery	True Value QC	RPD 3.77	Qualifier QM-07
Analyte	Result	Reporting Limit	Analyzed 10/22/2019	Method Blank		•	·		-
Analyte  Chloride	Result	Reporting Limit	Analyzed 10/22/2019	Method Blank		•	·		-
Analyte  Chloride  TPH 8015M	Result 2600 mg/	Reporting Limit 16.0	Analyzed 10/22/2019 Analyze	Method Blank ND d By: MS	432	108	400	3.77	QM-07
Analyte  Chloride  TPH 8015M  Analyte	Result 2600 mg/	Reporting Limit 16.0  kg  Reporting Limit	Analyzed 10/22/2019 Analyzed Analyzed	Method Blank  ND  d By: MS  Method Blank	432 BS	108 % Recovery	400 True Value QC	3.77 RPD	QM-07

Analyzed By: MS

Surrogate: 1-Chlorooctane 85.4 % 41-142 Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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: Reported:

10/17/2019

Sampling Date:

10/14/2019

Project Name:

10/23/2019 PIPER SWD FIRE Sampling Type:

Soil Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

UL M SEC18 T21S R37W

Sample ID: FLOOR 9 (H903563-09)

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	% 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	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						

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: 10/17/2019 Reported:

10/23/2019

Sampling Date:

10/14/2019 Soil

Project Name:

PIPER SWD FIRE

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

GOODNIGHT MIDSTREAM - 10769

Sample Received By:

Jodi Henson

Project Location:

UL M SEC18 T21S R37W

### Sample ID: FLOOR 10 (H903563-10)

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, SM4500Cl-B	mg	/kg	Analyzed 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	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	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						

Cardinal Laboratories

\*=Accredited Analyte

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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)

	9/	9	7	<u></u>					
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	Analyzed 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	10/19/2019	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	95.7	% 37.6-14	7						

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\*=Accredited Analyte

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Celey D. Keine



### 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 12 (H903563-12)

B1EX 8021B	mg/	кg	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	99.1	% 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	384	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	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	% 41-142							
Surrogate: 1-Chlorooctadecane	99.9	% 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:

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

10/14/2019

Reported: Project Name:

Sampling Type:

Soil

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: NW 1 b (H903563-13)

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	97.9 %	6 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	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 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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\*=Accredited Analyte

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Celey D. Keine



### 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: Sample Received By: Cool & Intact Jodi Henson

Project Number:

GOODNIGHT MIDSTREAM - 10769

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

### Sample ID: NW 2 b (H903563-14)

BIEX 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	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/22/2019	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	84.9	% 41-142							
Surrogate: 1-Chlorooctadecane	103	% 37.6-147	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

ma/ka

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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 3 b (H903563-15)

BIEX 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	98.8	% 73.3-129	)						
Chloride, SM4500CI-B	mg/	kg	Analyzed 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	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	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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\*=Accredited Analyte

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Celey D. Keine



### 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 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	% 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	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	% 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

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 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	% 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	48.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	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	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	109 9	% 37.6-14	7						

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\*=Accredited Analyte

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Celey D. Keine



### 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, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/22/2019	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 D. Keene



### 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 10/23/2019 Sampling Date:

10/14/2019

Reported:

mg/kg

Sampling Type:

Soil

Project Name:

PIPER SWD FIRE

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

Project Number: Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - 10769

UL M SEC18 T21S R37W

Sample ID: EW 4 b (H903563-19)

DILX GOZID	ıııg,	K9	Andryzo	u 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	102 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	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 9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	106 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

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 1 (H903563-20)

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	98.9	% 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	?						
Surrogate: 1-Chlorooctadecane	102 9	% 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:

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 2 b (H903563-21)

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	% 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

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

7

Project Location: UL M SEC18 T21S R37W

### Sample ID: SW 3 b (H903563-22)

BTEX 8021B	mg	/kg	Analyze	ed 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	98.7	% 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	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

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 4 b (H903563-23)

B1EX 8021B	mg	rkg	Anaiyze	а ву: мѕ					
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	% 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	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	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	107	% 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

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: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

GOODNIGHT MIDSTREAM - 10769

Project Location:

RTFY 8021R

UL M SEC18 T21S R37W

### Sample ID: WW 1 b (H903563-24)

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	10/19/2019	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, SM4500Cl-B	mg/	kg	Analyze	d 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	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	102 %	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	102 %	% 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 2 b (H903563-25)

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	98.2	% 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	960	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	95.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	95.1	% 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

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: 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 10/23/2019 Sampling Date:

10/14/2019

Reported: Project Name:

Sampling Type:

Soil Cool & Intact

Project Number:

PIPER SWD FIRE GOODNIGHT MIDSTREAM - 10769 Sampling Condition:

Project Location:

UL M SEC18 T21S R37W

Sample Received By: Jodi Henson

### 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 %	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	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 9	% 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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Celeg D. Freene

Relinquished By:

Date: Time:

Received By:

REMARKS: email results to danield@etechenv.com

□ Yes

N S

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

### aboratories

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Goodnight Midstream Permian, LLC

Company Name:	<ul> <li>Goodnight Midstream Permian, LLC</li> </ul>	<u></u>				Ŕ		10	64 1118					ANALYSIS DECLEST
Project Manager:	50000					P.O.	0. #:							
Address: 310	3100 Plains Hwy					င္ပ	ďμ	ıny:	Etech Environmental & Safety Solutions	ental & Safety				N N
City: Lovington	on State: NM	Zip:	Ö	88260		Attn:	Ħ	Daniel D	Daniel Dominguez					
Phone #: 575	575-396-2378 Fax #: 575-396-1429	-1429				Ad	dre	SS: P.O	Address: P.O. Box 301					
Project #: 10769	69 Project Owner:	ဝွ	odnigh	Goodnight Midstream Permian, LLC	ermian, LLC	City:	Ÿ.	Lovington	on					
Project Name:	Piper SWD Fire					Sta	State:	MN	<b>Zip:</b> 88260	=				
Project Location:	n: UL/ "M" Sec 18 T21S - R37W					Ph	one	Phone #: 575	575-396-2378					
Sampler Name:	Daniel Dominguez					Fa	× #:	Fax #: 575-396-1429	-1429					
FOR LAB USE ONLY		$\dashv$	$\dashv$	M,	MATRIX	Ī	밁	PRESERV.	SAMPLING	NG				
Lab I.D. H9 <i>035և3</i>	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	
1	Floor 1	C	7				П	×	10/14/19	11:57	×	×	×	
12	Floor 2	C			^			×	10/14/19	11:58	×	×	×	
S	Floor 3	C		×				×	10/14/19	11:59	×	×	×	
T	Floor 4	C		×	_			×	10/14/19	12:00	×	×	×	
U	Floor 5	C	7	×	_			×	10/14/19	12:01	×	×	×	
6	Floor 6	C		×	_			×	10/14/19	12:02	×	×	×	
لہ	Floor 7	C		×	^			×	10/14/19	12:03	×	×	×	
9	Floor 8	C		×	^			×	10/14/19	12:04	×	×	×	
9	Floor 9	C	_	×	^			×	10/14/19	12:05	×	×	×	
O	Floor 10	C		~	×			×	10/14/19	12:06	×	×	×	

Relinquished By: Time: 4:41 Date: 10/17 Received By Phone Result: Fax Result:

Sample Condition
Cool Intact
Yes Yes
No No

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

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

Delivered By: (Circle One)

FORM-006 R 2.0

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By:

Time: 4:41

Date: Time:

Received By:

Date:

10/17

Relinquished By:

### CARDINAL

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

Company isame.	Cooking in the case of the cas			The state of the s							
Project Manager:	Daniel Dominguez			P.O.	0.#:						
Address: 3100	3100 Plains Hwy			င္ပ	Company:	Etech Environmental & Safety Solutions	ntal & Safety				
City: Lovington	State: NM	Zip:	: 88260	At	Attn: Daniel D	Daniel Dominguez					
Phone #: 575-3	575-396-2378 Fax #: 575-396-1429	1429		Ac	Address: P.O. Box 301	. Box 301					
Project #: 10769	Project Owner:	Goo	Goodnight Midstream Permian, LLC		City: Lovington	ton					
Project Name: P	Piper SWD Fire			St	State: NM	Zip: 88260					
Project Location:	UL/ "M" Sec 18 T21S - R37W			P	Phone #: 575	575-396-2378					
Sampler Name:	Daniel Dominguez			Fa	Fax #: 575-396-1429	3-1429					
FOR LAB USE ONLY			7	MATRIX	PRESERV.	SAMPLING	โด				
Lab I.D. 14903563	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	Chloride	ТРН	BTEX 8021	
11	Floor 11	C		×	×	10/14/19	12:07	×	×	×	
_	Floor 12	C		×	×	10/14/19	12:08	×	×	×	
_	NW1b	C	_	×	×	10/14/19	12:15	×	×	×	
エ	NW2b	C		×	×	10/14/19	12:20	×	×	×	
	NW3b	C	_	×	×	10/14/19	12:25	×	×	×	
16	EW1b	C	_	×	×	10/14/19	12:30	×	×	×	
17	EW2	C		×	×	10/14/19	12:35	×	×	×	
8	EW3	C		×	×	10/14/19	12:40	×	×	×	
191	EW4b	C		×	×	10/14/19	12:45	×	×	×	
20	SW1	ဂ	_	×	×	10/14/19	12:50	×	×	×	

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

Sampler - UPS - Bus - Other: 2.5%

Delivered By: (Circle One) +,4

FORM-006 R 2.0

Sample Condition
Cool Intact
Ves Yes
No No

190

CHECKED BY:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By:

Time: U.41

Received By:

REMARKS: email results to danield@etechenv.com

Time: Date:

FORM-006 R 2.0

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

2.90

Sample Condition
Cool Intact
Pes P Yes
No No

CHECKED BY:

Sampler - UPS - Bus - Other: 2,50

Delivered By: (Circle One)

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

### aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Goodnight N	Goodnight Midstream Permian, LLC	15-201	8/1/2	9			ANAI YSIS REQUEST
Project Manager: Daniel Dominguez	inguez	71			_		
Address: 3100 Plains Hwy		0.1	Company: Etech Env	Etech Environmental & Safety Solutions			
City: Lovington	State: NM Zip: 8	88260	0	uez			
Phone #: 575-396-2378	Fax #: 575-396-1429	<b>b</b>	Address: P.O. Box 301	01			
Project #: 10769	Project Owner: Goodnight N	Goodnight Midstream Permian, LLC	City: Lovington				
Project Name: Piper SWD Fire	11	(0	State: NM Zip: 88260	8260			
Project Location: UL/ "M" Sec	UL/ "M" Sec 18 T21S - R37W	-77	Phone #: 575-396-2378	178			
Sampler Name:		F	Fax #: 575-396-1429				
FOR LAB USE ONLY	· .	MATRIX	PRESERV. SAI	SAMPLING			
Lab I.D. Sam	PRAB OR (C)OMP	UDGE	HER: EID/BASE: E / COOL HER:		nloride PH	ΓEX 8021	
<b>21</b> SW2b	#	× 8	× 10	12:55	+	+	
22 SW3b	C 1	×					
23 SW4b	C 1	×					
24 WW1b	C 1	×	X 10/14/19				
25 WW2b	C 1	×	X 10/14/19	/19 13:14	×	×	
24 wws	C 1	×	X 10/14/19	/19 13:19	×	×	
37 WW4	C 1	×	X 10/14/19	/19 13:24	×	×	
PLEASE NOTE: Liability and Damages. Cardinal's liab analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incident affairse or sunpassors action and for related to the	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by 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 applications of the application of the application of the application of the application of the applications of t	whether based in contract or to unless made in writing and rec n, business interruptions, loss	ort, shall be limited to the amount selved by Cardinal within 30 days of use, or loss of profits incurred	t paid by the client for the after completion of the app by client, its subsidiaries.	olicable		
Relinquished By:	Relinquished By:  Date: 10/17 Received By:  Phone Re Fax Resul	ed By:	and a part of the state of the	Phone Result:	# 	Yes   No	Add'l Phone #:
2 1/2	Time:	ON AND	2/25				



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.tceg.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) Regulated VOCs (V1, V2, V3)

Method EPA 524.4

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

Project Name: PIPER SWD FIRE

Project Number: 10769

Project Location: UL M SEC18 T21S R37W

Sampling Date: 02/10/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: 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

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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 Environmental & Safety Solutions, Inc.	ns, Inc				B	BILL TO					D	ANALYSIS	SISA		REQUEST	ST				_
Project Manager:	Joel Lowry			9	P.O. #:													-			
Address: P.O. Box 301	x 301			C	Company:	ny:	Etech	<u>ה</u>													
City: Lovington	State: NM	Zip: 88260	3826		Attn:																
Phone #: (575) 396-2378	6-2378 Fax #: (575) 396-1429	96-142	9	Α	Address:	s:															
Project #: 10769	Project Owner:		Goodn	Goodnight Midstream C	City:						)										
Project Name: Pipe	Piper SWD Fire			S	State:		Zip:			5M)	21B)										
Project Location:	8			<b>P</b>	Phone #:	.#·		***************************************		301	802						C.				
Sampler Name: Dav	David Robinson			.77	Fax #:				Chlo	PH (8	EX (										
FOR LAB USE ONLY			$\blacksquare$	MATRIX	PRE	PRESERV	SAMPLING		_	TP	ВТІ										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME													
EW 36	36	C		×		×	2/10/20			×											
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*LEASE NOTE: Liability and Dama, malyses. All claims including those f ervice. In no event shall Cardinal be ffiliates or successors arising out of	PLEASE NOTE: Lability and Damages, Cardinal's lability and client's exclusive temedy 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 causes whatsowershall 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 lable for incidental or consequental damages, including without limitation, bustness 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.	im arising id waived u t limitatior ut limitatior	whether I	based in contract or tort, shall ade in writing and received by o ss interruptions, loss of use, or hether such claim is based upo	be limited Cardinal w loss of pro	to the am ithin 30 da ofits incurr he above s	e limited to the amount paid by the client for the ardinal within 30 days after completion of the a sss of profits incurred by client, its subsidiaries any of the above stated reasons or otherwise.	for the the applicable iaries, rwise.										ŀ	-		
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 Revision 1.0

### 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.

