Oil Conservation Division

	Page 1 of 13 .
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?	<u>>141</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 📈 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 📈 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗹 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- Data table of soil contaminant concentration data
- $\overline{\mathbf{\nabla}}$ Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 3/25/202	0 9:52:03 AM State of New Mexic	20		Page 2 of 1
			Incident ID	NCH1903363086
age 4	Oil Conservation Divi	sion	District RP	1RP-5318
			Facility ID	
			Application ID	pCH1903363384
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Ralph Tij Signature: Ralph Tij email: rtijerina@goodr	equired to report and/or file certain relea ent. The acceptance of a C-141 report b te and remediate contamination that pos a C-141 report does not relieve the oper erina	by the OCD does not relieve the e a threat to groundwater, surfa ator of responsibility for comp	e operator of liability sh nee water, human health liance with any other fe	ould their operations have or the environment. In
OCD Only Received by:		Date:		

Oil Conservation Division

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

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\overline{\square}$ Estimated volume of material to be remediated

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

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

Deferral Requests Only: Each of the following items must be conf	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases ice of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
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 Denied Deferral Approved
Signature: I	Date:

Oil Conservation Division

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

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>141</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 📈 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 📈 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔽 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗹 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
 Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 3/25/20	20 9:52:03 AM State of New Mex	ing		Page 5 of 132
Form C-141			Incident ID	NDHR1918658476
Page 4	Oil Conservation Div	vision	District RP	1RP-5606
			Facility ID	
			Application ID	pDHR1918658098
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Ralph T Signature: Ralph	ormation given above is true and comple e required to report and/or file certain rel ment. The acceptance of a C-141 report gate and remediate contamination that po of a C-141 report does not relieve the op Tijerina <u>Inightmidstream.com</u>	lease notifications and perform co t by the OCD does not relieve the ose a threat to groundwater, surfa	prrective actions for rel- operator of liability sh ce water, human health iance with any other fe	eases which may endanger nould their operations have n or the environment. In
OCD Only Received by: Cristina	Eads	Date: 03/25	5/2020	

Oil Conservation Division

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.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\mathbf{\nabla}$ Estimated volume of material to be remediated

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

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

Deferral Requests Only: Each of the following items must be conf	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	duction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD as responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of ws and/or regulations.
Printed Name: Ralph Tijerina	Title: Director EHS
Signature: Ralph Tiperina	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 A	Approval X Denied Deferral Approved
Signature: Juitan 2	Date: 04/28/2020

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

Site Assessment Report, Proposed Remediation Workplan & Alternative Closure Strategy

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

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

Prepared By:

Etech Environmental & Safety Solutions, Inc. 3100 Plains Highway Lovington, New Mexico 88260

Daniel Dominguez

Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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APPENDICES

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

1.0 **PROJECT INFORMATION**

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

Location of Release Source											
Latitude:	32.47258	Longitude:	-103.20732								
	Provided GPS are in WGS84 format.										
Site Name: Penroc State E Site Type: SWD											
Date Release Discovere	ed: 12/22/2018	API # (if applica	ble): 30-025-26491								
Unit Letter Sec	ction Township	Range	County								
M	18 21S	37E	Lea								
Surface Owner: X Sta	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								
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?										
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	Cause of Release: The release was attributed to a filter having a blockage which caused a back-up of fluid flowing out of the top.										
	Initial Response										
X The source of the r	elease has been stopped.										
X The impacted area h	has been secured to protect hum	an health and the envi	ronment.								
X Release materials h	nave been contained via the use	of berms or dikes, abs	orbent pad, or other containment devices								
X All free liquids and	recoverable materials have bee	n removed and manag	ed appropriately.								

	Location of Release Source									
Latitude:	32.47259	Longitude:	-103.20721							
	Provided GPS are in format.									
	nroc State E (Piper SWI	D) Site Type:	SWD							
Date Release Discovered	ed: 6/24/2019	API # (if applic	able): 30-025-26491							
Unit Letter Se	ction Township	Range	County							
М	18 21S	37E	Lea							
Surface Owner: X State Federal Tribal Private (Name Nature and Volume of Release										
Crude Oil	Volume Released (bb	ls)	Volume Recovered (bbls)							
X Produced Water	Volume Released (bb)	Volume Recovered (bbls) 355								
	Is the concentration of produced water > 10,0	dissolved chloride in the 00 mg/L?	X Yes No N/A							
Condensate	Volume Released (bb	ls)	Volume Recovered (bbls)							
Natural Gas	Volume Released (Mo	cf)	Volume Recovered (Mcf)							
Other (describe)	Volume/Weight Relea	sed	Volume/Weight Recovered							
	uted to a storage tank ca	tching fire. A majority of outh, outside the containm	the release was confined to within the lined ent.							
	Initial Response									
X The source of the r	elease has been stopped.									
X The impacted area	has been secured to prote	ct human health and the env	vironment.							
X Release materials l	have been contained via t	he use of berms or dikes, ab	sorbent pad, or other containment devices							
X All free liquids and	recoverable materials ha	ve been removed and manag	ged 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?	> 141 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 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, nonimpacted "like" material. Excavation backfill will be contoured to match the surrounding topography.

•Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

6.0 VARIANCE REQUEST

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

7.0 ALTERNATIVE CLOSURE STRATEGY

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

8.0 SAMPLING PLAN

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

9.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

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

10.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

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

11.0 LIMITATIONS

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

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

13.0 DISTRIBUTION

Goodnight Midstream Permian, LLC 5910 N Central Expy

Dallas, TX 75206

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

Hobbs Field Office

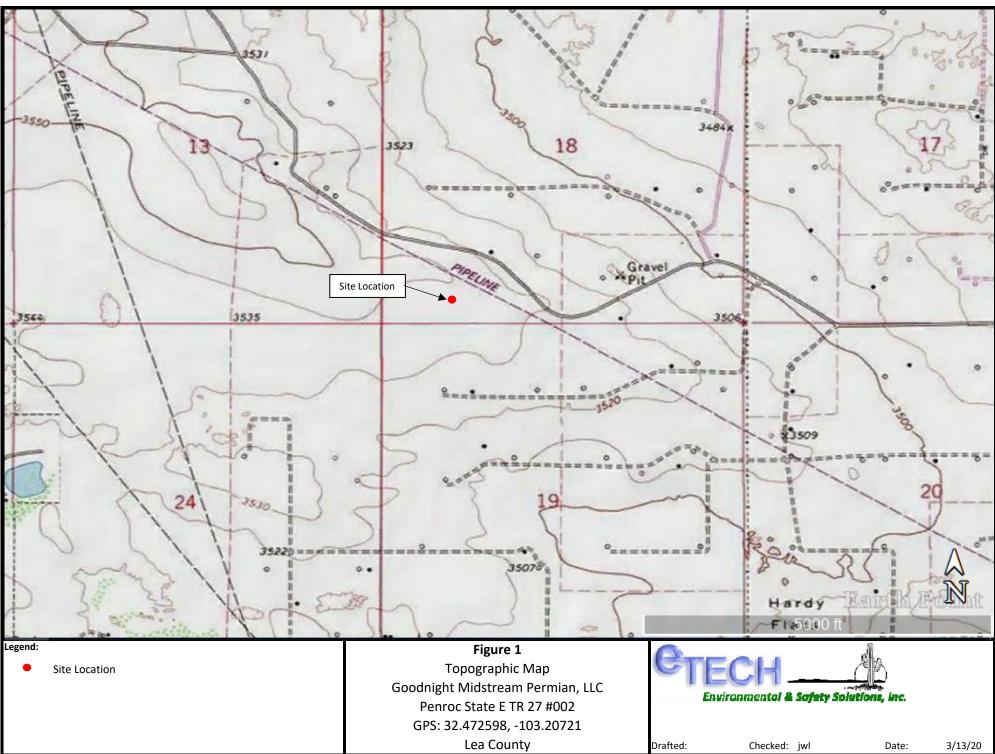
New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

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Figure 1 Topographic Map



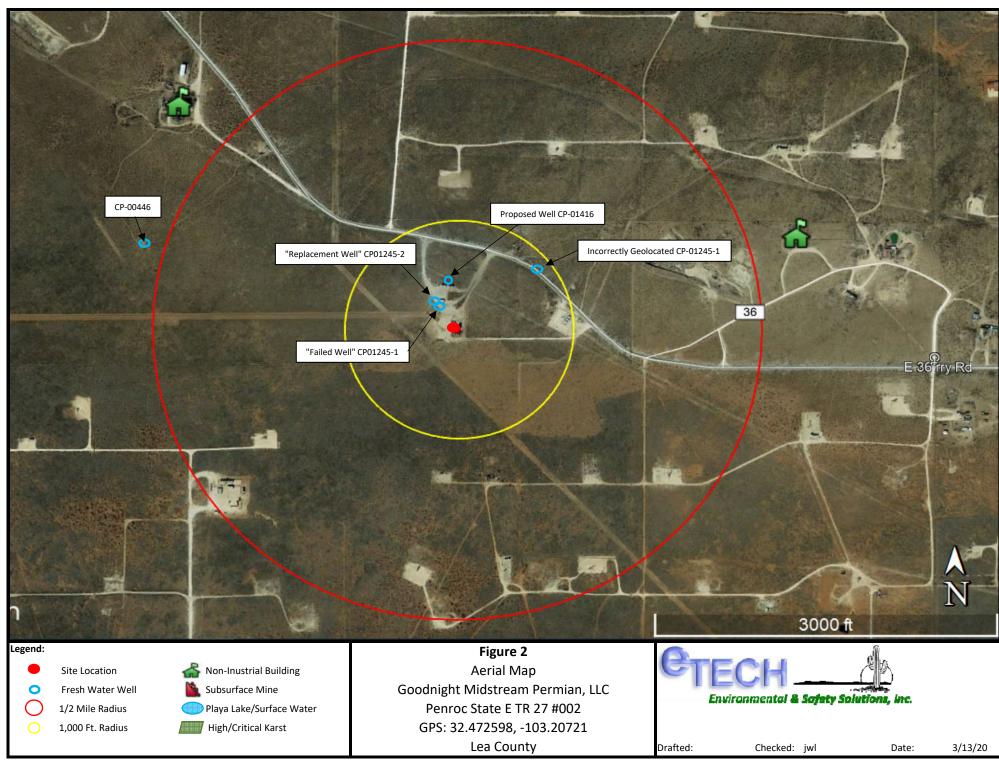
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Figure 2 Aerial Proximity Map



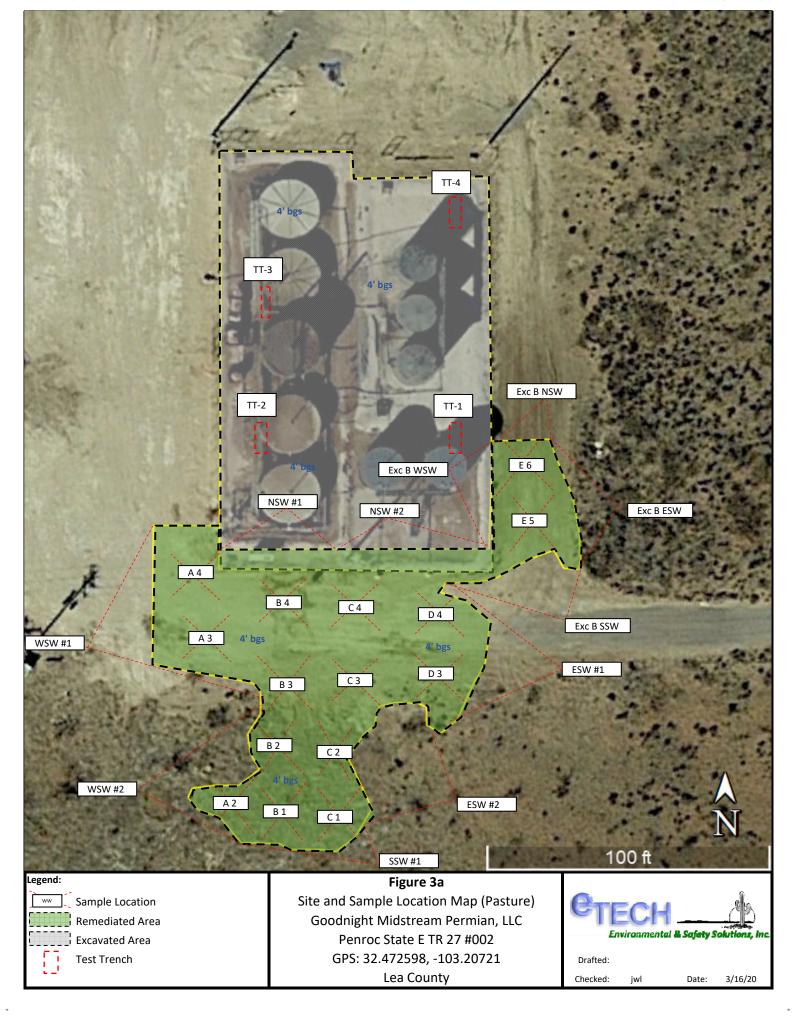
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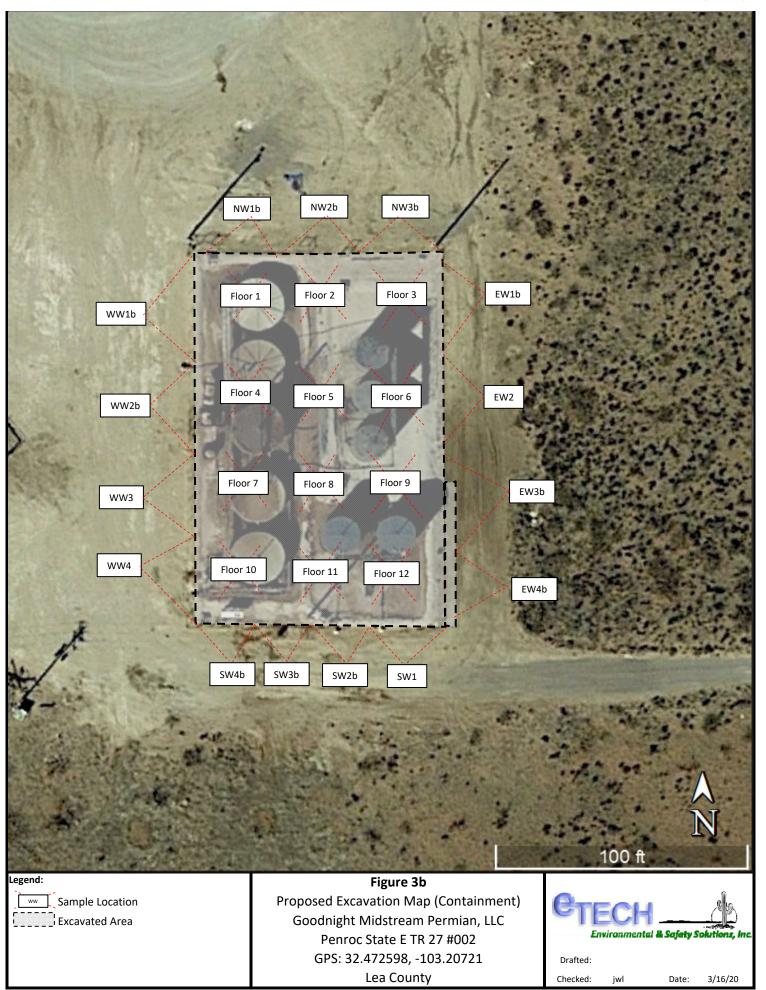
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Figure 3 Site and Sample Location Map

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Table 1Concentrations 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

I			INNIC	DCD Ref.		5516 & 1					
				SW 846	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Donth	Soil Status	_		GRO	DRO	GRO +	ORO	ТРН	
Sample ID	Date	Depth	Son Status	Benzene	BTEX	C6-C10	C10-C28	DRO	C28-C36	C6-C36	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C ₆ -C ₂₈ (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
B3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
B4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
C1	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
C2	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
C2 C3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
		4'									
C4	7/11/2019		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
D3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
D4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
E5	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
E6	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NSW#1	7/12/2019	2'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NSW#2	7/12/2019	2'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
											-
ESW#1	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
ESW#2	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SSW#1	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WSW#1	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WSW#2	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Exc. B NSW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
Exc. B ESW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
Exc. B SSW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
Exc. B WSW	7/12/2019	2	Excavated	< 0.050	< 0.300	<10.0	71.8	71.8	21.5	93.3	15,200
TT-1	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	672	672	192	864	4,800
11-1	8/16/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	45.8	45.8	12.1	57.9	144
	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	134	134	29.5	163.5	3,040
TT-2	8/16/2019	9'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
		-	Excavated		< 0.300	27.6	3.210	3,237.6	938	4,175.6	2,320
TT-3		7'					- / -				,
	8/16/2019		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	16.6	16.6	928
TT-4	8/16/2019	Surface	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/16/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
Floor 1	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
Floor 2	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	147	147	59.6	206.6	2,160
Floor 3	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Floor 4	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
Floor 5	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,300
l											,
Floor 6	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
Floor 7	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
Floor 8	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
Floor 9	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	965	965	239	1,204	480
Floor 10	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	72.4	72.4	31.5	103.9	288
Floor 11	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
Floor 12	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NW1b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
		2'							<10.0		
NW2b	10/14/2019		In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0		<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		2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
	10/14/2019	4									_,
	10/14/2019 2/10/2020					<10.0	<10.0	< 20.0	<10.0	< 30.0	
EW3b	2/10/2020 Closure C	2'	In-Situ	 10	 50	<10.0	<10.0	<20.0 N/A	<10.0	<30.0 100	 600

NOTES: - = Not analyzed for constituent

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

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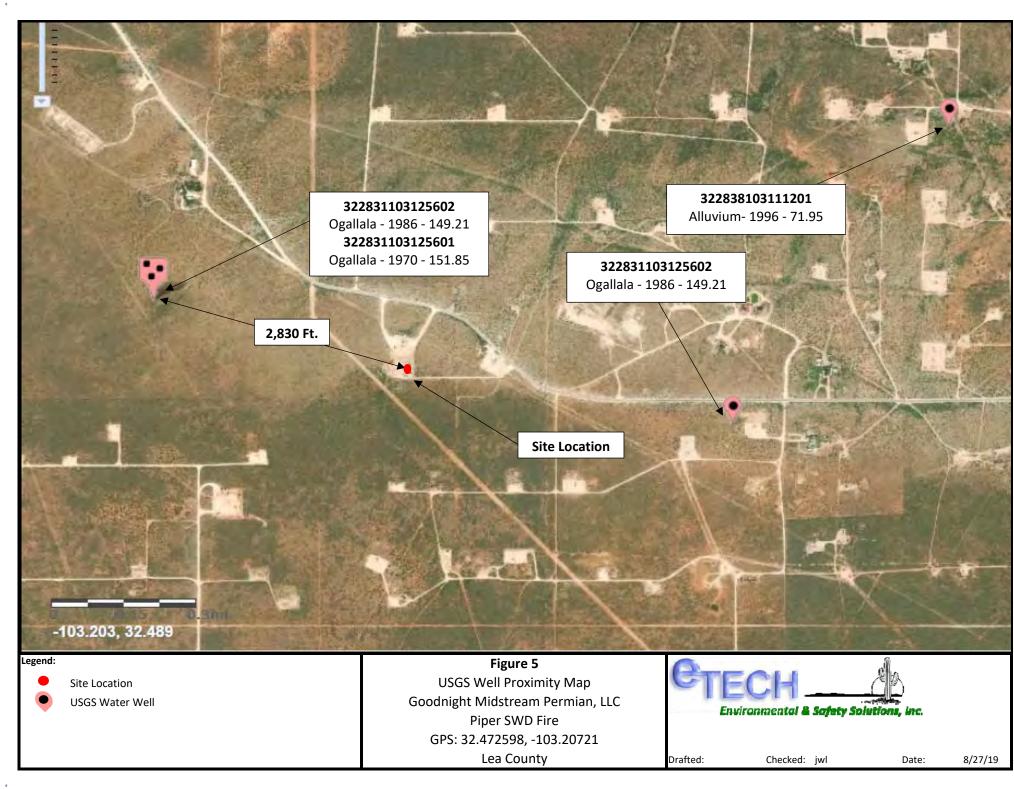
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A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been repl O=orpha C=the fil closed)	aced, ned, e is							/ 2=NE est to lar	3=SW 4=SI gest) (N	E) JAD83 UTM in n	neters)	(In f	èet)	
		POD Sub-		Q	0	0								W	ator
POD Number	Code	~~~~	County	-	-	-	Sec	Tws	Rng	X	Y	DistanceDe	othWellDep		ater lumi
<u>CP 01245 POD1</u>		СР	LE			4		21S	37E	668676	3594411 🌍	265	220		
<u>CP 00446 POD1</u>		СР	LE	1	4	4	13	21S	36E	667871	3594424* 🌍	632	185	148	Î
<u>P 00446 POD2</u>		СР	LE	1	4	4	13	21S	36E	667871	3594424* 🌍	632	200	151	4
											Avera	ge Depth to Wat	er:	149 feet	
												Minimum De	pth:	148 feet	
												Maximum De	pth:	151 feet	:
Record Count: 3															
UTMNAD83 Radius	s Search (in	meters):												
Easting (X): 668			<u>North</u>	ning ((\mathbf{Y}) :	3	594	237			Radius: 880				
				9											
UTM location was derived	from PLSS ·	- see Help									hat the OSE/ISC m				

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WATER COLUMN/ AVERAGE DEPTH TO WATER

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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

<u>Graph of data</u> 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	А	Approved for publication Processing and review completed.						

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Minimum number of levels = 1

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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

<u>Graph of data</u> Reselect period

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

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

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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

<u>Table of data</u>

Tab-separated data

<u>Graph of data</u>

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	3	D	98.92			2		U		
1970-12-15	5	D	99.66			2		U		
1981-02-27	7	D	98.82			2		U		
1986-03-18	3	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	А	Approved for publication Processing and review completed.

<u>Questions about sites/data?</u> Feedback on this web site Automated retrievals Help

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Data Tips Explanation of terms Subscribe for system changes News

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

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2019-08-19 17:49:52 EDT 0.58 0.55 nadww01

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USA.gov

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Appendix B Field Data and Soil Profile Logs

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CTECH	12		Soil Pro	file	
Environmental & Safety				Date:	11-Jul-19
Project:	Piper SWD Fire				
Project Number:	10769	Latitude:	32.472598	Longitude:	-103.20721
Depth (ft. bgs)			Des	scription	
1	Topso	il			
2					
3					
TD 4					
5	Caliche	9			
6					
/ 					
8 					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20 					
21					
22					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36 37					
37					
39					
40					

			Piper Sul Fire
			6/25/19
		PPM	Matthew Griew
Point Tim	IL CITION	Cluigh	
5P1185 11:0	5 4100	8	
SP1085 11:0			
SP9@5 11:1		4 4484	
Spres h:1		6084	
588@3'	164	φu	
SP705 11:15	TELE & ANN E	3252	
Spl@ 5 11:18		3532	
585@5 11:23		2068	
> 58 4@ 5 1):26		8900 e	- Isnorty
583.05 11:29		5644	paint
582@5 11:34		4484	and the second
-581C5_ 11:36		4148	
SPIDE		1508	
5810@2		2504	
SPIDE3	< 108		
SPACI'	-108	< 1184	
	5108	3832	
5P9 C2'		< 1199	
5pg @ 3'	164	51/84	
SPBC1'	D	3252	
58822'	[728		

\$

		Piper SWD fine 6/25/19	-
		PPM Matthew Gri	
Point Sp7@1	Time 4 ion		
5P7@2'		3832 1508	
SP2 03'	1728	1) • • •	
SP3@1	604	< 1184	
583 C 2'	1252		
59383'	604		
SPZØ1	<108	<1189	
58201	320		
SP\$@3'	604		
SP6@ 1"	200	<11/14	
5Ph@ 2'	200		
5863'	364		
58501	<108	<11-84	
\$95e2'	408200		
585831	200		
JPIC1	556		
58702	(4 2)		
SATE 3'	832		

20 9:52:03 AM

TECH	Initi	al Release Asse	ssment For	m	
Environmental & Safety Solutions, Inc.			Date:	6-26-19	
pject: Piper SWD F		Clean Up Level:			
oject Number:10	Latitude:	32.472598	Longitude:	-103.2	0721
Notes: conduct initial s	Spil (Spil) (Spi	site Diagram Bater Bater espz spr uo spr spr spr spr spr spr spr spr spr spr	P3 SAL	100	
~Length: いう ~Width:	(00 ~Area:		~Depth:		
A Doprocontative Distance (1)	a Affactad Area in Lui			Yes	No
3-4 Representative Pictures of the		ng sample locations?			
Necessary Samples Field Screene					
Sample and Field Screen Data Ent	ered on sample Log?				
Was horizontal and vertical deline	nation achieved				

e	
	Environmental & Safety Solutions, Inc.

Sample Log

Da	to	
υa	ιe	

8/16/2019

		Date:	0116/2019
roject: Pipe			
roject Number:	10769 Latitude	:32.472598 Longitude	:103.20721
Sample ID	PID/Odor	Chloride Conc.	32-49251 GPS
TT-1@Surt.	moderiti	72428	32.47251, -103.207104
11-1021	Slight	1944	1.
57-103'	Slight	372	٤.
TT-2054-F.	Slight	2482	32.47251, -103.20731
17.202'	None	1520	
17-204	~1	1348	
7 7051	N7	8966	
11-206'	*1	562	
17-201	~ 1	712	
17-208'	× 1	452	
17-2 Pg'	••	halo	
17-30 Surt.	Heavy	2428	32,47266,-103,20732
17-304'	Slight	1520	in y
17-305'	Slight	1348	کد دو
17-306'	None	コウン	د. ۹۷
17-307'	Nove	544	u 1,
77-40 Surl.	Now	4108	32.47272, -103.20718
17-401'		148	32(16/6, -103. 201710
			1. I.
17-50 Surl.	Slight	1252	32.47267,-113.20716
17-504	Slight	1620	
17-5041 17-505'	None	964	t 1.
17-5 P6'	None	230	i. 'r
17-60u'	None	2,572	32.47246 , -103.28723
17-400'	×1	1, 844	1
17-607	51	492	مر. ۲۰

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ## Refusal = SP #1 @ 4'-R Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc

Sidewall = SW #1 etc

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

CTECH		
Project: Dinur SWD Fire Clean Un Level	11/19	
Project: <u>Piper SWD Fire</u> Clean Up Level: Project Number: <u>10769</u> Latitude: <u>32,472,589</u> Longitude: <u>-103</u>	21221	
	. 20121	
Notes: Excavets Cutaride Inpacted Side walls Notes: Excavets Cutaride Inpacted Side walls Childride Los Leshilts in Black Incl. Notes: Cataride Inpacted Side walls Childride Los Lash I Sauch A 4000 (Perlainaction Standard) Childride Los Lash I Sauch A 4000 (Perlainaction Standard) Childride Inpacted Side walls Childride Inpacted Side wall	SRO 15	
~Length: ~Width: ~Area: ~Depth:		
3-4 Representative Pictures of the Affected Area including and the terminal	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations? Necessary Samples Field Screened and on Ice?		
Sample and Field Screen Data Entered on Sample Log?		

Was horizontal and vertical delineation achieved?

e	TECH	23	Initi	al Release Asse	essment Fo	rm	
	Environmental & Safety Solu	tions, Inc.			Date:	3/13/202	U
	ject: <u>P</u> per ject Number:	5WP 10769	Latitude:	Clean Up Level: <u>32.47259</u>		-103.207	
	Well w No ac	ithe Weller Fri 1855 70	lovell" drgennell" bourse	Site Diagram OIA For Wester Sample	sh water To		
			0				
	Aussed	tomer men,	banged de	Nov (OBBIS), N			
~	Length:	~Width:	~Area:		~Depth:	Yes	No
3	4 Representative F	Pictures of the Affec	ted Area includir	g sample locations?			
		Field Screened and o		o sample locations:			
	12	reen Data Entered o					
		vertical delineation	••••••••••••••••••••••••••••••••••••••				

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Appendix C Laboratory Analytical Reports



July 16, 2019

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

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

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. 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:	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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/15/2019	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	2						
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: A 3 (H902410-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	72.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.8	% 37.6-14	7						

Cardinal Laboratories

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Celeg 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:	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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	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	% 41-142							
Surrogate: 1-Chlorooctadecane	61.0	% 37.6-14	7						

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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: B 1 (H902410-04)

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	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	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	?						
Surrogate: 1-Chlorooctadecane	72.1	% 37.6-14	7						

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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: 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, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	76.0	% 41-142							
Surrogate: 1-Chlorooctadecane	76.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	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	% 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	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						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 4 (H902410-07)

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

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*=Accredited Analyte

Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: C 1 (H902410-08)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	2						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: C 2 (H902410-09)

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

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Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	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	73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	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	% 41-142							
Surrogate: 1-Chlorooctadecane	102	37.6-14	7						

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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: C 4 (H902410-11)

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	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	98.2	% 41-142							
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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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: 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	% 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	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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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: 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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	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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Celeg 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:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: E 5 (H902410-14)

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/25/2020 9:52:03 AM

Project Manager:		P.O. #:		
Address: P.O. Box 301		Company: E-tonta		
City: Lovington S	State: NM Zip: 88260	7		5
Phone #: (575) 396-2378 F	Fax #: (575) 396-1429	Address:		
Project #: 10769 P	Project Owner: Goodmiaht	City:		
-Swo Fi	re Midstream	State: Zip:	le 5M) 21B	
Project Location: Leg County		Phone #:	801	
Sampler Name: Hilda Villa		Fax #:		
FOR LAB USE ONLY	MATRIX	IX PRESERV. SAMPLING	TP	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		
1 AZ	-	1 p1-4-4	100m V V V	
2 4 3	2		VVV 20	
S AF	Upi V		NN SI	
4 31	U.1 J	V/7-11-191	1/1/1/31	
28 S	UN U	1 1-11-19	11/1/22:	
683	011	1 Pr11-9 1	30 111 05:	
184	V 1 0	V/7-11-19	10111515	
138	CN V	0/ 7-11-19/	150 V/V/V/V	
9.3		2 91-19 2	:05 V W W	
16 CS	$\mathbb{C}_{\mathcal{S}}$ 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	or tort, shall be limited to the amount paid by the client it	1.35 1/1/1/1	
linal be liable for incidental or consequental out of or related to the performance of ser	navoven san ue ueni ue veni ue vanveu unesa nave in wrung and received by Gardinai writing Joags after completion of the ag damages, incluiding writout limation, business interruptions, loss of use, or loss of profis incurred by clerat, its subsidiaries, vices hereurder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	mave in wranty and received by cardinal wrthin 30 days after completion of the a ness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries "whether such claim is based upon any of the above stated neasons or otherwise.	ve applicable ries, ise.	
Kelinguisned By:	17 Receive	MM LE	Phone Result: □ Yes □ No Fax Result: □ Yes □ No REMARKS:	o Add'l Phone #: o Add'l Fax #:
Relinquished By:	Date: Received By:	n anna se		
	Time:	Þ	ease email results to daniel	d@etechenv.com
(Circl	Sample Condition	CHECKED BY: (Initials)		a@cecient.com
	-	Tres		

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Dage 18 of 19

Received by OCD: 3/25/2020 9:52:03 AM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Etech Environmental & Safety Solutions, Project Manager:	DINAL LABORATORIES 11 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Etech Environmental & Safety Solutions, Inc.	CHAI			CHAIN-OF-CUSTODY AND ANALYSIS REQUEST ANALYSIS REQUEST
Project Manager: Address: P.O. Box 301		P.O. #: Company: F-for in			
Lovii	State: NM Zip: 88260				
Phone #: (575) 396-2378	Fax #: (575) 396-1429	Address:			
Project#: 10769	Project Owner: (Stocdu) alt	City:			
rSwot	ire midsham	State: Zip:		5M) 21B)	
Project Location: Lea Court		Phone #:	oric		
Sampler Name: Hilda III h	1	Fax #:	_		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE			
14/		54:2 b1-11-2 //	V V	24	
14 ES	24	25'2 NHIT/		1/1/	
15 Elo					
arabyses. All claims including those for negligence and any other cause v service. In no event shall Cardinal be liable for incidental or consequenta affiliales or successors arising out of or nealed to the performance of sea Relinguilished Bv?	Instscever shall be deemed waived unless made in writing damages, including without limitation, business interruptio vices hereunder by Cardinal, regardless of whether such most be and the second second by the second	and received by Candina within 30 days after completion of the explicable rs, loss of use, or loss of profits incurred by client, its subsidiantes, faim is based upon any of the above stated reasons or otherwise.		1	
Relinquished By:	Date: 1/10/17 Received By: Time: 1/1/17 Received By: Date: Received By:	Aldaber Phone Result: Fax Result: REMARKS:	Si ti ulti	□ Yes □ No	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1. 4° F97 Pres Pres	CHECKED BY: (Initials)	nall resu	r lease einail results to pm@etechenv.com	aneny.com
FORM-006 Revision 1.0	† Cardinal cannot accept v	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	langes to	575-393-2476	

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July 16, 2019

KIM MERRILL

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions KIM MERRILL P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	07/15/2019	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: NSW # 1 (H902418-01)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	97.0	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.5	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	74.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	81.9	% 37.6-14	7						

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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: NSW # 2 (H902418-02)

BTEX 8260B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.6	% 90.4-11	1						
Surrogate: Toluene-d8	100 \$	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.2	% 80.1-12	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	69.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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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 # 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, SM4500Cl-B	mg	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2019	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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Analytical Results For:

Etech Environmental & Safety Solutions KIM MERRILL P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	07/15/2019	Sampling Date:	07/12/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: ESW # 2 (H902418-04)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.6	% 90.4-11	1						
Surrogate: Toluene-d8	98.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	89.3	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyzed 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	2						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Received:	07/15/2019	Sampling Date:	07/12/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SSW # 1 (H902418-05)

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

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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: WSW # 1 (H902418-06)

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	100	% 90.4-11	1						
Surrogate: Toluene-d8	98.5	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.9	% 80.1-12	1						
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	07/16/2019	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	97.0	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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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: WSW # 2 (H902418-07)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.2	% 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	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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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 NSW (H902418-08)

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	98.5	% 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	2						
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

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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 ESW (H902418-09)

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	100	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.4	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	61.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

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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 SSW (H902418-10)

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	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.5	% 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	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	2						
Surrogate: 1-Chlorooctadecane	72.5	% 37.6-14	7						

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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)

Result	Reporting Limit							
0.005		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					
101 9	% 90.4-11	1						
99.4	% 85.3-11	4						
90.2	% 80.1-12	1						
mg/	′kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
15200	16.0	07/16/2019	ND	416	104	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	07/16/2019	ND	199	99.4	200	3.66	
71.8	10.0	07/16/2019	ND	218	109	200	2.06	
21.5	10.0	07/16/2019	ND					
71.5	% 41-142							
92.5	% 37.6-14	7						
-	<0.025 <0.075 <0.150 101 9 99.4 90.2 mg/ Result 15200 mg/ Result <10.0 71.8 21.5 71.5	 <0.025 <0.075 <0.075 <0.150 <0.150 90.4 · 11. 99.4 · √ 85.3 · 11. 90.2 · √ 80.1 · 12. 90.2 · √ 90.2 · √<td> <0.025 0.025 0.075 0.075 0.075 0.075 0.150 07/16/2019 07/16/2019 07/16/2019 07/16/2019 85.3-114 90.2 % 80.1-121 90.2 % 90.2 %<!--</td--><td><0.025</td> 0.025 07/16/2019 ND <0.075</td> 0.075 07/16/2019 ND <0.150	 <0.025 0.025 0.075 0.075 0.075 0.075 0.150 07/16/2019 07/16/2019 07/16/2019 07/16/2019 85.3-114 90.2 % 80.1-121 90.2 % 90.2 %<!--</td--><td><0.025</td> 0.025 07/16/2019 ND <0.075	<0.025	<0.025	<0.025	<0.025	<0.025

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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other		analyses. All claims in ourinings: curatinals saturity and clients exclusive remedy for any claim rating whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims in fouring those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, unsitienss interruptions, loss of use, or loss of profils incarred by client, its subsidiaries, affitates or successors arising out of or related to the performance of services hereurdon's by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					W	Sample I.D.		VIY		ND					<u>a</u>	Etech Environmental & Safety Solutions, Inc.	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	orator		
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August 29, 2019

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

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

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. 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:	08/23/2019	Sampling Date:	08/16/2019
Reported:	08/29/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - M, 18,21,37		

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	0.066	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	4800	16.0	08/28/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed 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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	08/23/2019	Sampling Date:	08/16/2019
Reported:	08/29/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - M, 18,21,37		

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, 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					
Surrogate: 1-Chlorooctane	90.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	08/23/2019	Sampling Date:	08/16/2019
Reported:	08/29/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - M, 18,21,37		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	134	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	29.5	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	-						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	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	% 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	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	,						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	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 @ 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	Analyzed 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	2						
Surrogate: 1-Chlorooctadecane	190 9	% 37.6-14	7						

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Celeg 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:	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, SM4500Cl-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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*=Accredited Analyte

Celeg 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:	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, 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	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	,						
Surrogate: 1-Chlorooctadecane	115 9	37.6-14	7						

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Celeg 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:	08/23/2019	Sampling Date:	08/16/2019
Reported:	08/29/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - M, 18,21,37		

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, 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	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	% 41-142	,						
Surrogate: 1-Chlorooctadecane	120	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 90 of 132

Page 11 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

•

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

	Relinquished By: Date: Received By:	Junara Ulder	Date: (1-1-1-) Received By	PLEASE NOT IT: Labolity and utimages. Cardinals labolity and clients exclusive remedy for any same arrange to contrade or ion; same be inneed to be annotate part by the annot		S TT-4@1' G 1 X 8/16/19	プ IT-4 @ Surface G 1 X 8/16/19	6 TT-3@7' G 1 X 8/16/19	S TT-3 @ Surface G 1 X 8/16/19	TT-2	-	2 TT-1 @4" G 1 X 8/16/19	TT-1 @ Surface G 1 X 8/16/19	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Fax #: 5/5-396-14	n: "M", 18, 21, 37, Lea	iper SWD Fire	Project #: 10769 Project Owner: Goodnight Midstream Per City: Lovington	Phone #: 575-396-2378 Fax #: 575-396-1429 Address: P.O. Box 301	City: Lovington State: NM Zip: 88260 Attn: Daniel Dominguez	Address: 3100 Plains Hwy Company: Etech Environmental & Sa	Project Manager: Daniel Dominguez P.O. #:	Company Name: Goodnight Midstream Permian, LLC	(575) 393-2326 FAX (575) 393-2476
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FORM-006 R 2.0



October 23, 2019

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

RE: PIPER SWD FIRE

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

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

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

Method EPA 552.2	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.

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,

Celez 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:	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 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, SM4500Cl-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						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	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 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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	147	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	59.6	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142							
Surrogate: 1-Chlorooctadecane	115 9	% 37.6-14	7						

Cardinal Laboratories

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Celeg 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:	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 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	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 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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:	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 4 (H903563-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	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. <i>3</i>	% 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	2560	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	83.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

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Celeg 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:	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 5 (H903563-05)

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	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. <i>3</i>	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/22/2019	ND	432	108	400	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	86.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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*=Accredited Analyte

Celeg 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:	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 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	,						
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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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	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 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	% 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	688	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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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	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 8 (H903563-08)

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	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	% 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	2600	16.0	10/22/2019	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142							
Surrogate: 1-Chlorooctadecane	99.2	% 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: 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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	965	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	239	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	82.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	130	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 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 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	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*	72.4	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	31.5	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 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 11 (H903563-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142							
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	10/17/2019	Sampling Date:	10/14/2019
Reported:	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 12 (H903563-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	88.8	% 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:	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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 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: NW 2 b (H903563-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 37.6-14	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: NW 3 b (H903563-15)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	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 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 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. <i>3</i>	% 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		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	84.1	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

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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	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	,						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

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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	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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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 4 b (H903563-19)

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	102	% 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	80.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	,						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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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	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	Analyzed 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	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	10/17/2019	Sampling Date:	10/14/2019
Reported:	10/23/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	GOODNIGHT MIDSTREAM - 10769	Sample Received By:	Jodi Henson
Project Location:	UL M SEC18 T21S R37W		

Sample ID: SW 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. <i>3</i>	% 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	10/21/2019	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:	Cool & Intact
Project Number:	GOODNIGHT MIDSTREAM - 10769	Sample Received By:	Jodi Henson
Project Location:	UL M SEC18 T21S R37W		

Sample ID: SW 3 b (H903563-22)

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	98.7	% 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	528	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	97.0	% 41-142							
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	10/17/2019	Sampling Date:	10/14/2019
Reported:	10/23/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	GOODNIGHT MIDSTREAM - 10769	Sample Received By:	Jodi Henson
Project Location:	UL M SEC18 T21S R37W		

Sample ID: SW 4 b (H903563-23)

BTEX 8021B	mg,	/kg	Analyze	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	<i>98.3</i>	% 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	240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	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							
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions DANIEL DOMINGUEZ P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	10/17/2019	Sampling Date:	10/14/2019
Reported:	10/23/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	GOODNIGHT MIDSTREAM - 10769	Sample Received By:	Jodi Henson
Project Location:	UL M SEC18 T21S R37W		

Sample ID: WW 1 b (H903563-24)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, 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							
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	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2019	ND	215	108	200	2.74	
DRO >C10-C28*	<10.0	10.0	10/21/2019	ND	208	104	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	10/21/2019	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142							
Surrogate: 1-Chlorooctadecane	95.1	% 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 3 (H903563-26)

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	98.1	% 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	% 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 Fax To: (575) 396-1429

Received:	10/17/2019	Sampling Date:	10/14/2019
Reported:	10/23/2019	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	GOODNIGHT MIDSTREAM - 10769	Sample Received By:	Jodi Henson
Project Location:	UL M SEC18 T21S R37W		

Sample ID: WW 4 (H903563-27)

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

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/25/2020 9:52:03 AM

Labor	ratories						CHAIN-O			F-CUSTODY	Y AND ANALYSIS REQUEST
101 East Ma (575) 393-	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	40 76									
Company Name: Goodnigh	Goodnight Midstream Permian, LLC	07380			81	BILL TO					ANALYSIS REQUEST
Project Manager: Daniel Dominguez	ominguez			9	P.O. #:					_	
Address: 3100 Plains Hwy				0	Company:	Etech Environmental & Safety Solutions	intal & Safety				2
City: Lovington	State: NM	Zip:	88260	A	<u>a</u>	Daniel Dominguez					
Phone #: 575-396-2378	Fax #: 575-396-1429	429	2	A	Address: P.O. Box 301). Box 301					
Project #: 10769	Project Owner:	Goodr	Goodnight Midstream Permian, LLC	-	City: Lovington	ton					
Project Name: Piper SWD Fire				S	••	Zip: 88260				-	
Project Location: UL/ "M" S	UL/ "M" Sec 18 T21S - R37W			P	Phone #: 575-396-2378	-396-2378					
Sampler Name: Daniel Dc	Daniel Dominguez			F	Fax #: 575-396-1429	5-1429					
FOR LAB USE ONLY		P.	3	MATRIX	PRESERV.	SAMPLING	ິດ				
Lab I.D. Sa	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	
/ Floor 1	£	C			×	10/14/19	11:57	×	×	×	
Z Floor 2		0		×	×	10/14/19	11:58	×	×	×	
3 Floor 3		0		×	×	10/14/19	11:59	×	×	×	
4 Floor 4		0	_	×	×	10/14/19	12:00	×	×	×	
5 Floor 5		ი		×	×	10/14/19	12:01	×	×	×	
Floor 6		0	_	×	×	10/14/19	12:02	×	×	×	
T Floor 7		ი		×	×	10/14/19	12:03	×	×	×	
5 Floor 8		0	-	×	×	10/14/19	12:04	×	×	×	
9 Floor 9		0	-	×	×	10/14/19	12:05	×	×	×	
ID Floor 10		c	1	×	×	10/14/19	12:06	×	×	×	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any utiliam arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ardinal's liability and client's exclusive remedy for ar gligence and any other cause whatsoever shall be d > for incidental or consequental damages, including	ty claim a leemed w without li	arising whether bas valved unless made imitation, business i	ed in contract or tor in writing and rece	t, shall be limited to ived by Cardinal wi f use, or loss of pro	the amount paid by thin 30 days after co fits incurred by clier	the client for the mpletion of the a nt, its subsidiaries	applicable			
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	the performance of services hereunder by C:	ardinal, re	egardless of whethe	er such claim is bas	ed upon any of the	above stated reason	easons or otherwise.				
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Mane. Coomingin Minericani Fernian, LLC	alli r cillian, LLC				Constanting of the	VICI	SIFF IC	Allow a state of the				ANALISIS ADCODUL	
•••					P.O. #:						_		
P					Com	Company:	Etech Environmental & Safety Solutions	ntal & Safety					
ovington	State: NM	Zip:	88260		Attn:	1 1	Daniel Dominguez				-		
ıe #: 575-396-2378	Fax #: 575-396-1429	29			Addr	Address: P.O. Box 301	. Box 301						
: 10769	-	Goodni	Goodnight Midstream Permian, LLC		City:	Lovington	ton						
ame: Piper SWD Fire					State	State: NM	Zip: 88260						
Project Location: UL/ "M" Sec 18 T21S - R37W	21S - R37W				Phor	1e #: 575	Phone #: 575-396-2378						
	2				Fax #	Fax #: 575-396-1429	5-1429			1 22.			
			2	MATRIX	P	PRESERV.	SAMPLING	G					
Lab I.D. Sample I.D.	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		
II Floor 11		0	-		_	×	10/14/19	12:07	×	×	×		
		-		×		×	10/14/19	12:08	×	×	×		
NW1b				×		×	10/14/19	12:15	×	×	×		
1		ი		×		×	10/14/19	12:20	×	×	×		
15 NW3b		0		×		×	10/14/19	12:25	×	×	×		
1		ი		×		×	10/14/19	12:30	×	×	×		
17 EW2		ი		×		×	10/14/19	12:35	×	×	×		
18 EW3		0		×		×	10/14/19	12:40	×	×	×		
1 9 EW4b		0		×		×	10/14/19	12:45	×	×	×		
20 SW1 C 1 X 10/14/19 12:50 C 1 X 10/14/19 12:50	client's exclusive remedy for an	C V claim a	1 arising whether ba	X ased in contract of	or tort, sha	hall be limited to	10/14/19 the amount paid by	12:50 y the client for the	°×	×	×		
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed warved untess made in writing and reserved by varinal writing and as a use competion or use approved service. In no event shall Cardinal bable for incidential or consequential datages, including without limitation, briness interruptions, loss of use, or loss of fortis incured by olient, its subbidiaries, service. In no event shall Cardinal bable for incidential or consequential datages, including without limitation, briness interruptions, loss of use, or loss of fortis incured by olient, its subbidiaries, service. In no event shall Cardinal bable for incidential or consequentiate datages, including without limitation, but of the service stated reasons of otherwise.	re rause whatsoever shall be deemed varved unless made in wrining and received by chainal writin va usays arrei competion or invisioned and an and the standard of the standard sta I sequential damages, including without limitation, business interprivations, loss of use, or loss of informatio	eemed w without li	imitation, business	de in writing and s interruptions, li her such claim is	loss of use	e, or loss of pro	whin so days aner o ofits incurred by cliev above stated reaso	nt, its subsidiaries	applicable S,				
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Relinquished By:	Time: 4:41 Date: Time:	Reg	Received By:	A	2	CON CON	4 C	REMARKS:	KS:	email r		danield@etechenv.com	2
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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Goodnight Midstream Permian, LLC	C	BILL	TO			ANALYSIS REQUEST
Project Manager:	: Daniel Dominguez		P.O. #:			_	
Address: 3100	3100 Plains Hwy		Company: Etech En Solutions	Etech Environmental & Safety Solutions			
City: Lovington	n State: NM	Zip: 88260	Attn: Daniel Dominguez	Juez			
Phone #: 575-	575-396-2378 Fax #: 575-396-1429	-1429	Address: P.O. Box 301	301			
Project #: 10769	9 Project Owner:	Goodnight Midstream Permian, LLC	ian, LLC City: Lovington				
Project Name: F	Piper SWD Fire		State:	88260			
Project Location:	: UL/ "M" Sec 18 T21S - R37W	×	Phone #: 575-396-2378	378			
Sampler Name:			Fax #: 575-396-1429				
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			
Lab I.D. H903563	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME Chloride	трн	BTEX 8021	
20	SW2b	×		12:55		×	
	SW4b		X 10/14/19 X 10/14/19	4/19 13:00 X	<	<	
	WW1b	<u>-</u>		13:10		×	
-	WW2b	C 1 X	X 10/14/19	13:14		×	
	WW3	C 1 X	X 10/14/19	13:19		×	
64	WW4		X 10/14/19	4/19 13:24 X		×	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car affiliates or successors arising	Damages. Cardinal's liability and client's those for negligence and any other cau- linal be liable for incidental or conseque out of or related to the performance of a	rr any claim arising whether based in be deemed waived unless made in w ling without limitation, business intern y Cardinal, regardless of whether su	contract or tort, shall be limited to the amoun riting and received by Cardinal within 30 day ruptions, loss of use, or loss of profits incurre ch claim is based upon any of the above stat	nt paid by the client for the rs after completion of the applic d by client, its subsidiaries, ed reasons or otherwise.			
Ricco	Time: 0.41	Necenced By.	denson	Fax Result: REMARKS:	a nr	Yes □ No mail results to d	Add'l Phone #: Add'l Fax #: danield@etechenv.com
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FORM-006 R 2.0

 $\dagger\,$ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 $\cup\,$

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February 14, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2	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.

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. Keine

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	Sampling Date:	02/10/2020
Reported:	02/14/2020	Sampling Type:	Soil
Project Name:	PIPER SWD FIRE	Sampling Condition:	Cool & Intact
Project Number:	10769	Sample Received By:	Tamara Oldaker
Project Location:	UL M SEC18 T21S R37W		

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

FORM-006 Revision 1.0	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	man and		service. In no event shall Cardinal be liable for incidental or con affiliates or successors arising out of or related to the performa	PLEASE NOTE: Liability and Damages. Cardina's liability and analyses. All claims including those for negligence and any other					1 EW 36		Lab I.D. Sample I.D.	FOR LAB USE ONLY	Sampler Name: David Robinson	Project Location: Lea	Project Name: Piper SWD Fire	Project #: 10769	Phone #: (575) 396-2378	City: Lovington	Address: P.O. Box 301	Project Manager: Joel Lowry	Company Name: Etech Environm	101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-24
† Cardinal cannot accept ve	HIIS 0.2 Sample Condition Cool Intact Pres Pres No No	Time:	Date: Received By:		Date:	nce of services hereunder by Cardinal,	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsomer shall be deemed waited unless made in writing and revealed by the client for the						# 0 v	G)RAB OR (C)OMF CONTAINERS GROUNDWATER NASTEWATER SOIL DIL SLUDGE	A. MATRIX				Project Owner: Goodnight Midstream	Fax #: (575) 396-1429	State: NM Zip: 88260			Etech Environmental & Safety Solutions, Inc.	KDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	CHECKED BY: (Initials)	Please email	n. Chamar	REMARKS:	Control Phone Result	reactive uness inver in wining and recorded by cardinata within or days after compression or the appress imitation, business interruptions, bass of use, or loss of profits incurred by client, its subsidiaries, recardless of whether such claim is based upon any of the above stated reasons or otherwise	shall be limited to the amount paid by the client for the					X 2/10/20		DTHER : ACID/BASE: CE / COOL DTHER : -	PRESERV. SAMPLING	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company: Etech	P.O. #:	BILL TO	
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75-393-		to dan			Yes 🛛								┢		BI	EX	(80	21B)						
-2476		results to danield@etechenv.com and pm@etechenv.com		No	No Add'I Phone #:																			ANALYSIS REQUEST	

Received by OCD: 3/25/2020 9:52:03 AM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

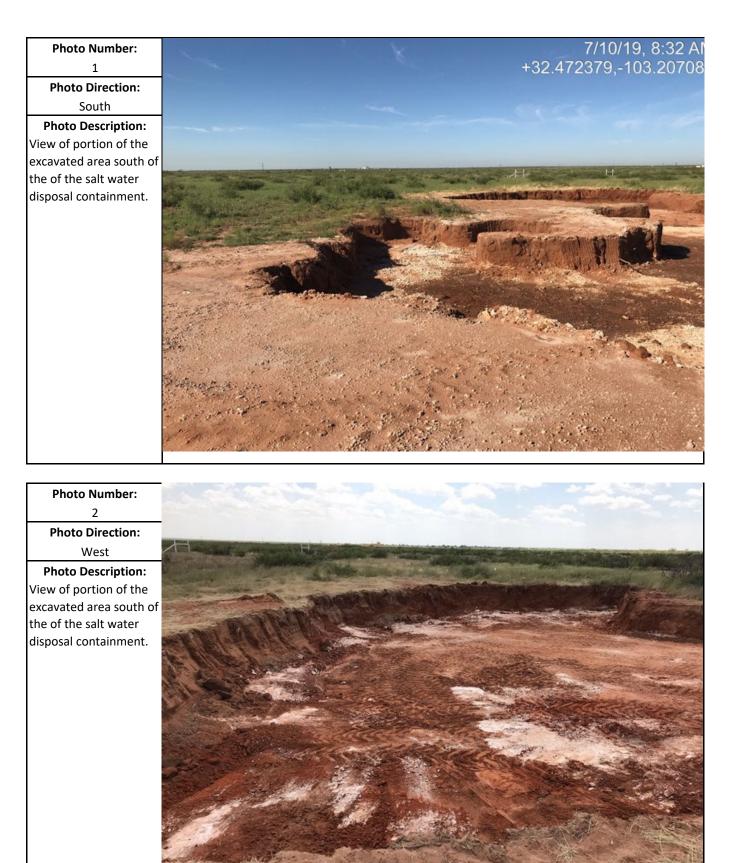
Page 4 of 4

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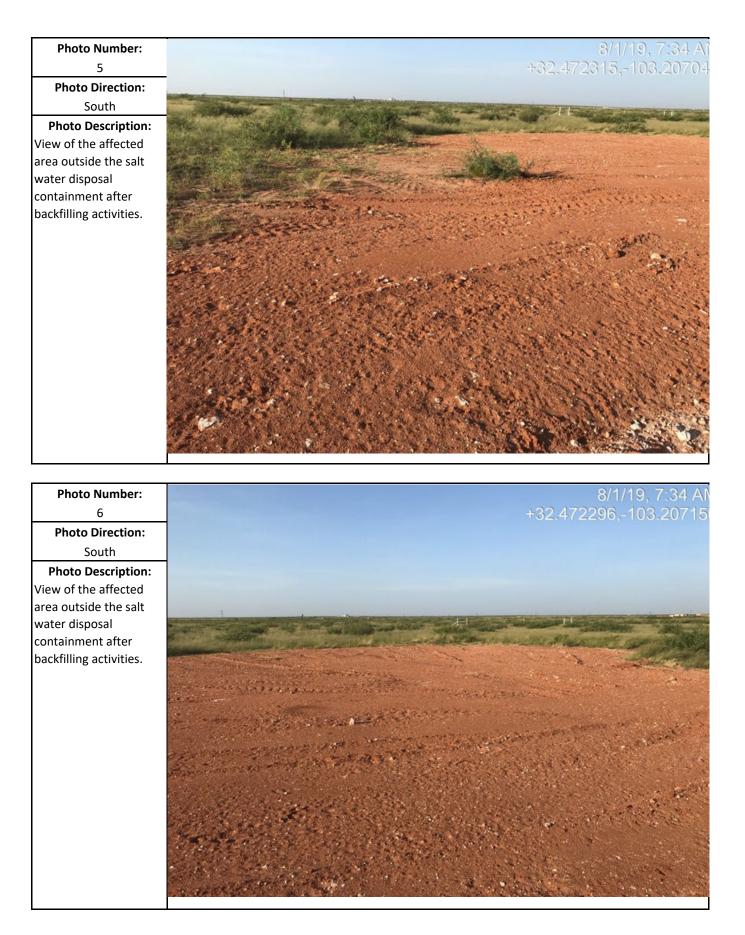
Appendix D Photographic Log

Photographic Log











Photographic Log



