State of New Mexico Oil Conservation Division

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

Incident ID	nDHR1918658476
District RP	
Facility ID	
Application ID	

Closure

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

✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
✓ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
✓ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Albert Ochoa Title: HSE Representative
Signature: Other Date: 05/13/2021
email: albert.ochoa@goodnightmidstream.com Telephone:(432) 242-6629
OCD Only
Received by: Chad Hensley Date: 08/02/2021
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date: Date: Date: Date: Date: Date: Date: Date:
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Released to Imaging: 8/2/2021 11:21:16 AM

Incidents #nCH1903363086 and #nDHR1918658476 affected the same area. In accordance with the NMOCD, the releases were remediated concurrently. To aid in recordkeeping, the attached *Remediation Summary & Soil Closure Request* has been submitted through the NMOCD Online Payment Portal for **each** incident.

Remediation Summary & Soil Closure Request

Goodnight Midstream Permian, LLC Penroc State E & Piper SWD Fire

Lea County, New Mexico
Unit Letter "M", Section 18, Township 21 South, Range 37 East
Latitude 32.472598 North, Longitude 103.207210 West
NMOCD Reference Nos. nCH1903363086 & nDHR1918658476

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Ben J. Arguijo Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the releases known as the Penroc State E and Piper SWD Fire. A fire and subsequent release on June 24, 2019, at the Piper SWD (NMOCD Incident #nDHR1918658476) affected areas that had been previously impacted by a release that occurred on December 22, 2018 (Penroc State E, NMOCD Incident #nCH1903363086). A majority of each of the releases was confined within the lined salt water disposal (SWD) containment area. However, portions of the releases breached the containment and affected the caliche pad/access road and the adjacent pasture.

Details of the individual releases are summarized below. The areas affected by the commingled releases (henceforth referred to collectively as "the Site") were delineated and remediated concurrently.

		P	enroc State E								
		Location	on of Release So	urce							
Latitude:	32	.472587	Longitude:		-103.207328						
Provided GPS are in WGS84 format.											
Site Name: Penroc State E Site Type: SWD											
Date Release Discovered: 12/22/2018 API # (if applicable): 30-025-26491											
Unit Letter	Section	Township	Range	County							
"M"	18	21S	37E	Lea							
Surface Owner: [X State	Federal Tribal	Private (Na	me							
		Nature a	and Volume of R	elease							
X Crude Oil	Volu	me Released (bbls)	5	Volume Recove	ered (bbls) 4						
X Produced W	ater Volu	me Released (bbls)	595	Volume Recove	ered (bbls) 594						
		concentration of total c) in the produced water		X Yes	No N/A						
Condensate	Volu	me Released (bbls)		Volume Recove	ered (bbls)						
Natural Gas	Volu	me Released (Mcf)		Volume Recove	ered (Mcf)						
Other (descr	ribe) Volu	me/Weight Released		Volume/Weight	Recovered						
Cause of Release The release was		a filter having a blocka	ge, which caused a	back-up of fluid flo	owing out of the top.						
		I	nitial Response								
X The source of	of the release	has been stopped.									
X The impacte	d area has be	en secured to protect hur	nan health and the ϵ	environment.							
X Release mate	erials have be	en contained via the use	of berms or dikes, a	absorbent pad, or oth	ner containment devices						
X All free liqui	ids and recov	erable materials have be	en removed and ma	naged appropriately.							

Piper SWD Fire										
Location of Release Source										
Latitude:	32.47	72598	Longitude:	-103.207210						
Provided GPS are in format.										
Site Name: Piper SWD Fire Site Type: SWD										
Date Release Discovered: 6/24/2019 API # (if applicable): N/A										
11.41.41.6	1	T 1:	D. I							
Unit Letter Se	ection 18	Township 21S	Range 37E	County Lea						
171	10	215	3712	Lea						
Surface Owner: X S	tate I	Federal Tribal	Private (Nam)						
		Nature a	and Volume of Re	lease						
	1									
Crude Oil	Volume	e Released (bbls)		Volume Recovered (bbls)						
X Produced Water	Volume	e Released (bbls)	400	Volume Recovered (bbls) 355						
	1	oncentration of total on the produced water		X Yes No N/A						
Condensate	Volume	e Released (bbls)		Volume Recovered (bbls)						
Natural Gas	Volume	e Released (Mcf)		Volume Recovered (Mcf)						
Other (describe)	Volume	/Weight Released		Volume/Weight Recovered						
	Cause of Release: The release was attributed to a storage tank catching fire. A majority of the release was confined within the lined containment. Approximately 45 bbls flowed south, outside the containment.									
Initial Response										
X The source of the	release ha	s been stopped.								
X The impacted area	a has been	secured to protect hur	nan health and the en	vironment.						
X Release materials	have been	contained via the use	of berms or dikes, ab	osorbent pad, or other containment devices						
X All free liquids an	d recovera	able materials have be	en removed and mana	aged appropriately.						

Previously submitted portions of the NMOCD Form C-141 for each release 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 Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

Site Assessment/Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	>	141'
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 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) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

Commercial well CP-01245-2 is the only existing fresh water well within 1,000 feet of the Site. The well is no longer in use and is scheduled to be plugged and abandoned forthwith.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the releases, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth	Constituent	Laboratory Analytical Method	Closure	Reclamation
to Groundwater	Constituent	Laboratory Aliasytical Method	Criteria*†	Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>141'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

^{*} Measured in milligrams per kilogram (mg/kg)

[†] Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

[‡] The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 INITIAL SITE ASSESSMENT

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 SWD containment area in an effort to determine the horizontal and vertical extent of impacted soil. 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. Based on field observations and field test results, additional delineation of the Site was required.

5.0 REMEDIATION ACTIVITIES SUMMARY (PHASE 1)

On June 26, 2019, upon completion of the initial site assessment, remediation activities commenced at the Site. Impacted soil outside of the tank battery containment area was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and/or test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard.

On July 11 and 12, 2019, Etech collected 26 confirmation soil samples (A2, A3, A4, B1, B2, B3, B4, C1, C2, C3, C4, D3, D4, E5, E6, 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) from the floor and sidewalls of the excavation to the south and east of the SWD facility. The soil samples were submitted to a certified commericial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standard in each of the submitted soil samples, with the exceptions 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 in the areas characterized by soil samples NSW #2 and Exc. B WSW was precluded by the presence of the SWD containment area.

Upon review of laboratory analytical results, the excavation was backfilled with locally sourced, non-impacted, "like" material and compacted to facilitate the use of a crane to deconstruct and remove the SWD facility.

On August 16, 2020, following removal of the equipment, pipes, and appurtenances from within the SWD containment area, the liner was removed to investigate the underlying soil. Etech advanced a series of four (4) test trenches (TT-1 through TT-4) within the former containment area in an effort to determine the vertical extent of impacted soil. The test trenches were advanced to total depths ranging from one (1) foot bgs (TT-4) to nine (9) feet bgs (TT-2). During the advancement of the test trenches, eight (8) delineation soil samples (TT-1 @ Surface, TT-1 @ 4', TT-2 @ Surface, TT-2 @ 9', TT-3 @ Surface, TT-3 @ 7', TT-4 @ Surface, 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 or Reclamation Standards beyond four (4) bgs in the areas characterized by test trenches TT-1 and TT-4.

Upon discovering impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standard beneath the former SWD containment area, the uppermost four (4) feet of the affected area was excavated. The sidewalls of the excavation were advanced until laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standards. The excavation was also 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, pending transfer to an NMOCD-permitted surface waste facility for disposal.

On October 14, 2019, Etech collected twenty-seven (27) confirmation soil samples (Floor 1 through Floor 12, NW1b, NW2b, NW3b, EW1b, EW2, EW3, EW4b, SW1, SW2b, SW3b, SW4b, WW1b, WW2b, WW3, and WW4) from the floor and sidewalls of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in a majority of the submitted soil samples, with the exceptions of samples WW1b, WW2b, WW3, WW4,

Floor 2, Floor 4, Floor 5, Floor 7, and Floor 8, which exhibited chloride concentrations ranging from 688 mg/kg (Floor 7) to 2,800 mg/kg (WW1b). TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in a majority of the submitted soil samples, with the exceptions of samples EW3, Floor 2, Floor 9, and Floor 10, which exhibited TPH concentrations ranging from 104 mg/kg (Floor 10) to 1,850 mg/kg (EW3). Further advancement of the excavation in the areas characterized by soil samples WW1b, WW2b, WW3, and WW4 was precluded due to safety concerns.

On February 10, 2020, excavation activities resumed at the Site. The excavation was further advanced in the area characterized by soil sample EW3, and Etech collected one (1) confirmation soil sample (EW3b) from the sidewall of the excavation. The soil sample was submitted to the laboratory for analysis of TPH, which was determined to be below the NMOCD Closure Criteria and NMOCD Reclamation Standard.

Remediation actives were temporarily placed on hold pending the plugging and abandonment of commercial freshwater wells installed by the previous facility owner.

During Phase 1 of remediation activities, approximately 3,600 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

6.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment and subsequent remediation activities, Goodnight Midstream Permian, LLC, proposed the following remediation activities to the NMOCD 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 NMOCD Reclamation Standards.
- 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 Standards remaining in-situ.
- Upon completion of remediation activities, prepare a *Remediation Summary and Site Closure Request* detailing remediation activities and the results of confirmation soil samples.

7.0 REGULATORY APPROVALS AND STIPULATIONS

On May 7, 2020, a revised *Site Assessment Report, Proposed Remediation Workplan and Alternative Closure Strategy* was submitted to the NMOCD, outlining a plan to advance the Site to an approved closure and requesting a variance to install a 20-mil, string-reinforced liner on the floor the excavation at approximately four (4) feet bgs. The workplan was subsequently approved by the NMOCD, with the stipulation that the areas characterized by sample points Floor 2, Floor 4, Floor 5, Floor 8, and Floor 9 be excavated an additional one (1) foot prior to installation of the liner and backfilling the excavation.

Please reference the revised Site Assessment Report, Proposed Remediation Workplan and Alternative Closure Strategy for additional details regarding the initial site assessment and proposed remediation activities.

8.0 REMEDIATION ACTIVITIES SUMMARY (PHASE 2)

On March 1, 2021, following plugging and abandonment of the on-site commercial freshwater wells, Etech resumed remediation activities at the Site. In accordance with the NMOCD-approved workplan and added stipulations, the excavation was advanced an additional one (1) foot bgs in the areas characterized by sample points Floor 2, Floor 4, Floor 5, Floor 8, and Floor 9 to a total depth of approximately five (5) feet bgs. Excavated soil was stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal.

On March 3, 2021, Etech collected five (5) confirmation soil samples (Floor 2 @ 5', Floor 4 @ 5', Floor 5 @ 5', Floor 8 @ 5', and Floor 9 @ 5'). The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples.

On March 4, 2020, pursuant to the approved workplan, a 20-mil, string-reinforced, polyethylene liner was installed on the floor of the excavation. Prior to installation of the liner, the areas characterized by sample points Floor 2, Floor 4, Floor 5, Floor 8, and Floor 9 were backfilled to four (4) feet bgs to match the topography of the remainder of the excavation. An approximate 6-inch layer of pad material was installed both above and below the liner in an effort to maintain its integrity during backfilling activities. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ.

The final dimensions of the excavated area were approximately 160 feet in length, 100 to 110 feet in width, and ranged from two (2) to five (5) feet in depth. During Phase 2 of remediation activities, an additional 40 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal, for a grand total of approximately 3,640 cubic yards.

A "Site & Sample Location Map" is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

9.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured 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 free of noxious weeds during the first favorable growing season following closure of the Site.

10.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with the 2020 Site Assessment Report, Proposed Remediation Workplan and Alternative Closure Strategy. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standard was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX and TPH are below the NMOCD Closure Criteria and NMOCD Reclamation Standard, with the exception of soil sample Floor 10, which exhibited a TPH concentration of 104 mg/kg and was left in-situ with NMOCD approval.

In accordance with the NMOCD-approved workplan, a 20-mil, string-reinforced liner was installed on the floor of the excavation atop impacted soil exhibiting chloride concentrations above the NMOCD Closure Criteria and NMOCD Reclamation Standard. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight Midstream Permian, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

11.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* 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 without the consent of Etech and/or Goodnight Midstream Permian, LLC.

12.0 DISTRIBUTION

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

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

Hobbs Field Office

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

(Electronic Submission)

Figure 1 Topographic Map

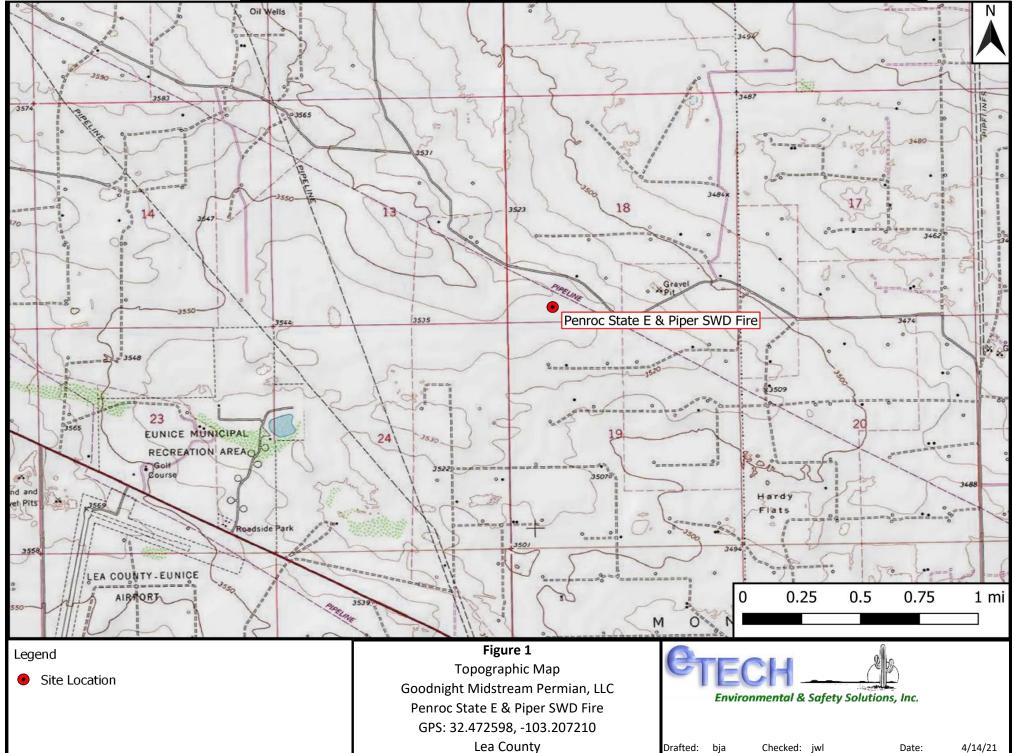


Figure 2 Aerial Proximity Map

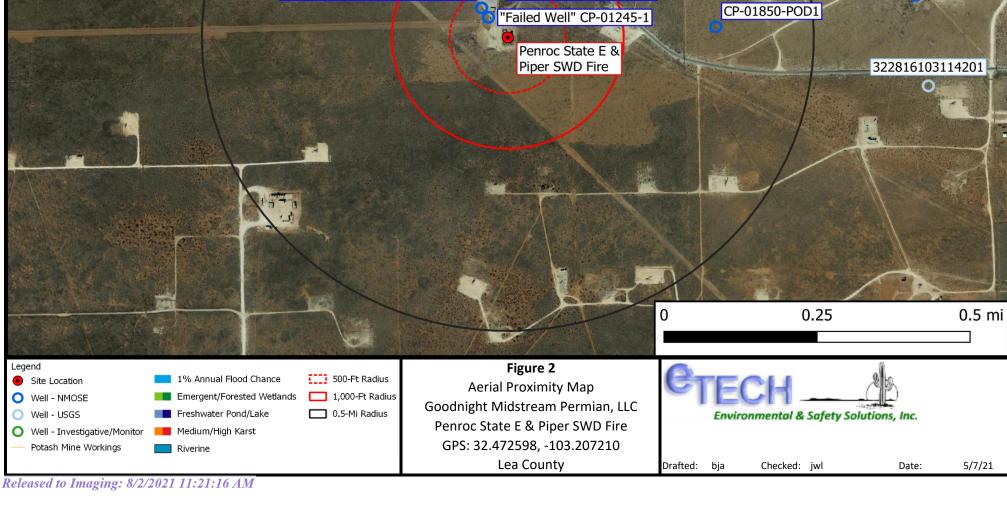


Figure 3 Site & Sample Location Map



Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Penroc State E & Piper SWD Fire

NMOCD Ref. #'s: nCH1903363086 & nDHR1918658476

NIMO	OD OL O		MOCD			003000 &	NDHK191	0030470	l	100	<0.0
	CD Closure C Reclamation			10	50	-	-	-	-	100	600
NMOCD	Reciamation	Standard	1	10	50	-	-	7.046.001534	-	100	600 4500 Cl
				SW 840	5 8021B		SW 846 8015M Ext.				
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (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
C3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
C4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
D3	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
D4	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
E5	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
E6	7/11/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NSW#1	7/12/2019	2'	In-Situ	< 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 ESW	7/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
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 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 @ Surface	8/16/2019	0'	Excavated	< 0.050	< 0.300	<10.0	672	672	192	864	4,800
TT-1	8/16/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	45.8	45.8	12.1	57.9	144
TT-2 @ Surface	8/16/2019	0'	Excavated	< 0.050	< 0.300	<10.0	134	134	29.5	164	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
TT-3 @ Surface	8/16/2019	0'	Excavated	< 0.050	< 0.300	27.6	3,210	3,240	938	4,180	2,320
TT-3	8/16/2019	7'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	16.6	16.6	928
TT-4 @ Surface	8/16/2019	0'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT-4	8/16/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW1b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
NW2b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
NW3b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW1b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW2	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW3	10/14/2019	2'	Excavated	< 0.050	< 0.300	11.8	1,430	1,440	408	1,850	160
EW3b	2/10/2020	2'	In-Situ	1	1	<10.0	<10.0	<20.0	<10.0	<30.0	1

NOTES:

^{- =} Sample not analyzed for that constituent.

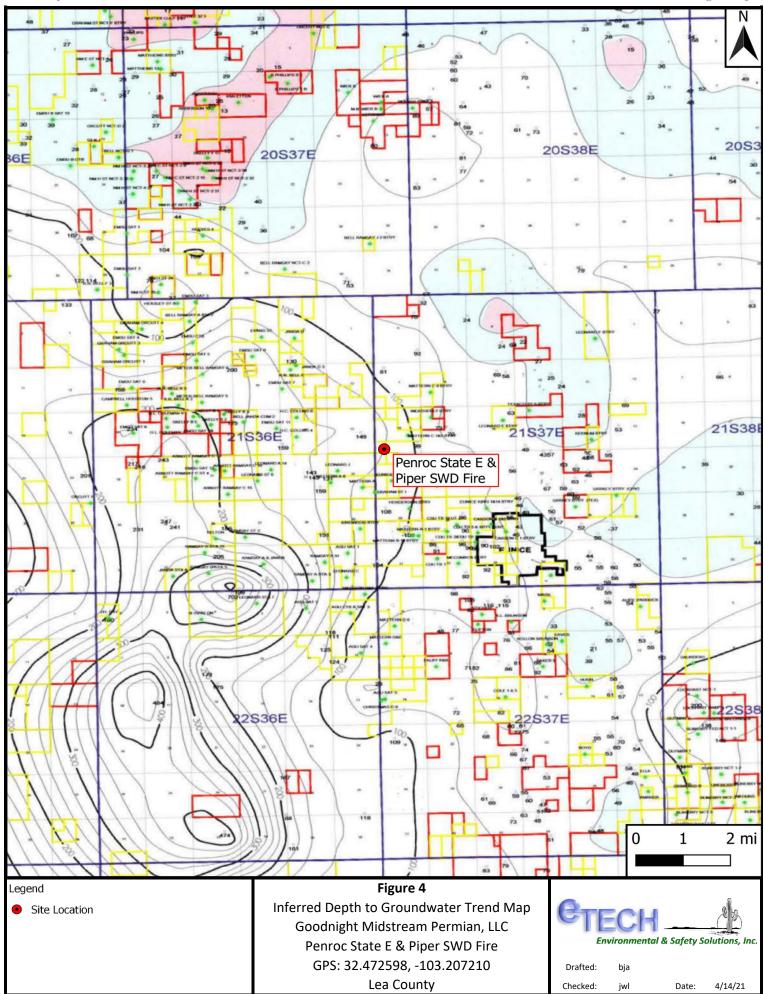
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Penroc State E & Piper SWD Fire

NMOCD Ref. #'s: nCH1903363086 & nDHR1918658476

NMOCD Ref. #'s: nCH1903363086 & nDHR1918658476											
NMO	CD Closure C	riteria		10	50	-	-	-	-	100	600
NMOCI	NMOCD Reclamation Standard					-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EW4b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW1	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW2b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
SW4b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW1b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
WW2b	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
WW3	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,180
WW4	10/14/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
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'	Excavated	< 0.050	< 0.300	<10.0	147	147	59.6	207	2,160
Floor 2 @ 5'	3/3/2021	5'	In-Situ	< 0.00200	< 0.00200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	226
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'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
Floor 4 @ 5'	3/3/2021	5'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	89.4
Floor 5	10/14/2019	4'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
Floor 5 @ 5'	3/3/2021	5'	In-Situ	< 0.00199	< 0.00199	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	479
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'	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
Floor 8 @ 5'	3/3/2021	5'	In-Situ	< 0.00198	< 0.00198	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	236
Floor 9	10/14/2019	4'	Excavated	< 0.050	< 0.300	<10.0	965	965	239	1,200	480
Floor 9 @ 5'	3/3/2021	5'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	136
Floor 10	10/14/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	72.4	72.4	31.5	104	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

NOTES:

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(NAD83 UTM in meters)

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

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

closed)

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

(quarters are smallest to largest)

(In feet)

,	,	•	•					• , .		•	•	•	
	POD Sub-		Q	QQ	<u>!</u>						Depth	Depth	Water
POD Number	Code basin (County	64	16 4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
CP 01245 POD1	СР	LE		4	18	21S	37E	668676	3594411 🌑	265	220		
CP 01850 POD1	СР	LE	3	3 4	18	21S	37E	669023	3594266 🌍	548	200	110	90
CP 00446 POD1	СР	LE	1	4 4	13	21S	36E	667871	3594424* 🌍	632	185	148	37
CP 00446 POD2	СР	LE	1	4 4	13	21S	36E	667871	3594424* 🌑	632	200	151	49

Average Depth to Water: 136 feet

> Minimum Depth: 110 feet

151 feet Maximum Depth:

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 668475 Northing (Y): 3594237 **Radius: 804.67**

*UTM location was derived from PLSS - see Help

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



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01245 POD1

4 18 21S 37E

668676 3594411

ð

Driller License: 1682 Driller Company: HUNGRY HORSE, LLC.

Driller Name: NORRIS, JOHN D.

Drill Start Date: 09/25/2013

Drill Finish Date:

09/30/2013

Plug Date:

Source:

Shallow

Log File Date: Pump Type:

11/06/2013

PCW Rcv Date:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

SUBMER 8.00

Depth Well:

220 feet

Depth Water:

Water Bearing Stratifications: Top Bottom Description

34

83 Sandstone/Gravel/Conglomerate

89

214 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

0 220

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Water Right Summary

get image list

WR File Number: CP 01245 Subbasin: CP Cross Reference:

Primary Purpose: COM COMMERCIAL

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: - Header: -

Total Diversion: 80 Cause/Case: -

Owner: PIPER ENERGY, LLC.
Contact: CHARLES R. BRIGGS
Owner: ATKINS ENGR ASSOC INC

Contact: RICHARD C CIBAK

Documents on File

				Sta	itus		r rom/			
	Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
g <u>et</u> images	604424	SUPPL	2015-07-13	PMT	APR	CP 01245	T	0	0	0
g <u>et</u> images	604415	APPRO	2014-04-29	PMT	APR	CP 01245	T	0	80	80

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 CP 01245 POD1
 Shallow
 4 18 21S 37E
 668676
 3594411

<u>CP 01245 POD2</u> 4 18 21S 37E 668417 3594283

Priority Summary

PriorityStatusAcresDiversionPod Number10/09/2013PMT080CP 01245 POD1Shallow

CP 01245 POD2

Place of Use

Source

 Acres
 Diversion
 CU
 Use
 Priority
 Source
 Description

 0
 80
 80
 COM
 10/09/2013
 GW

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

5/7/21 2:04 PM WATER RIGHT SUMMARY



Transaction Summary

SUPPL Application for Supplemental Well (Ground)

Transaction Number: 604424 Transaction Desc: CP 01245 File Date: 09/17/2014

Primary Status: PMT Permit
Secondary Status: APR Approved

Person Assigned: ******

Applicant: PIPER ENERGY, LLC. **Contact:** CHARLES R. BRIGGS

Applicant: ATKINS ENGINEERING ASSOC, INC.

Contact: RICHARD C. CIBAK

Events

get images	Date 09/17/2014	Type APP	Description Application Received	Comment *	Processed By
	09/29/2014	NFP	Notice for Publication		*****
	05/18/2015	AOP	Affidavit of Publication rcv		*****
	07/13/2015	NUC	No PBU or PCW Approval		*****
	0=/4=/=04=				
	07/13/2015	FIN	Final Action on application		*****
	03/20/2017	QAT	Quality Assurance Completed	SQ2	*****
	03/30/2017	QAT	Quality Assurance Completed	IMAGE	*****
	04/20/2020	ARW	WRAB Main File Rm Arch Sect	CP 01245 Archived	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive Purpose of Use
CP 01245	0	0	0 COM COMMERCIAL

**Point of Diversion

CP 01245 POD2 668417 3594283

Remarks

"APPLICATION IS FILED TO DRILL A WELL TO BE USED AS A SUPPLEMENTAL/ALTERNATE POINT OF DIVERSION TO THE PREVIOUSLY PERMITTED WELL CP-1245. WELL CP-1245 HAS PARTIALLY FAILED RESULTING IN REDUCED CAPACITY."

"APPLICANT REQUESTS EMERGENCY AUTHORIZATION TO IMMEDIATELY DRILL AND USE THE CP-1245-POD2 WELL PURSUANT TO NEW MEXICO STATUTE 72-12-24. ATTACHED TO THIS APPLICATION IS A AFFIDAVIT REQUESTING AUTHORIZATION PURSUANT TO 72-12-24 NMSA(1978)."

"ALSO ATTACHED TO THIS APPLICATION IS A COPY OF NEW MEXICO STATE LAND OFFICE WATER EASEMENT NO. WR-715, AMENDMENT #1.

SAID AMENDMENT INCLUDES INFORMATION AUTHORIZING THE DRILLING AND USE OF ADDITIONAL WELLS."

Conditions

- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- Q The State Engineer retains jurisdiction over this permit.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved **Action Date:** 07/13/2015

State Engineer:

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

5/7/21 1:51 PM TRANSACTION SUMMARY



Water Right Summary

CP 01416 Subbasin: CP WR File Number: **Cross Reference:**

Primary Purpose: COMMERCIAL COM

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: Header: -

Total Diversion: 150 Cause/Case: -

> Agent: ATKINS ENGR ASSOC INC

Contact: RICHARD C CIBAK Owner: PIPER ENERGY, LLC **Contact:** CHARLES R. BRIGGS

Documents on File

Status From/

Trn# File/Act 2 To Doc Transaction Desc. **Diversion Consumptive** Acres PMT APR CP 01416 Т 0 2015-10-29 150 150

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng Other Location Desc CP 01416 POD1 668436 3594361 N1/2 OR S1/2, NE1/4

Priority Summary

Priority Acres Diversion Pod Number Status 09/17/2014 **PMT** 150 CP 01416 POD1

Place of Use

256 64 Q16 Q4Sec Tws Rng Diversion CU Use Priority Status Other Location Desc Acres 150 COM 08/17/2014 PMT NO PLACE OF USE GIVEN 0 150

Source

Acres Diversion $\mathbf{C}\mathbf{U}$ Use Priority Source Description

0 150 150 COM 09/17/2014

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

5/7/21 2:02 PM WATER RIGHT **SUMMARY**



Transaction Summary

APPRO Application to Appropriate

Transaction Number: 605873 **Transaction Desc:** CP 01416 **File Date:** 09/17/2014

Primary Status:PMTPermitSecondary Status:APRApproved

Person Assigned: ******

Agent: ATKINS ENGINEERING ASSOC, INC.

Contact: RICHARD C, CIBAK

Applicant: PIPER ENERGY, LLC

Contact: CHARLES R. BRIGGS

Events

	Date	Type	Description	Comment	Processed By
get images	09/17/2014	APP	Application Received	*	*****
	10/02/2014	NFP	Notice for Publication		*****
	10/28/2014	AOP	Affidavit of Publication rev		*****
	10/29/2015	PUC	PBU/PCW Approval		*****
	10/29/2015	FIN	Final Action on application		*****
	04/14/2017	QAT	Quality Assurance Completed	SQ2	*****
	04/24/2017	QAT	Quality Assurance Completed	IMAGE	*****
	04/20/2020	ARW	WRAB Main File Rm Arch Sect	CP 01416 Archived	*****

Water Right Information

WR File Nbr Acres Diversion Consumptive Purpose of Use
CP 01416 0 150 150 COM COMMERCIAL

**Point of Diversion

CP 01416 POD1 668436 3594361

**Place of Use

Q Q Q Q
256 64 16 4 Sec Tws Rng Acres Diversion Consumptive Use Priority Status Other Loc Desc
0 150 COM 08/17/2014 PMT NO PLACE OF USE GIVEN

Remarks

"APPLICATION IS BEING MADE TO DRILL A NEW WELL AND APPROPRIATE UP TO 150.0 ACRE-FEET PER ANNUM FOR COMMERCIAL WATER SALES USES."

"ATTACHED TO THIS APPLICATION IS COPY OF A NEW MEXICO STATE LAND OFFICE WATER EASEMENT NO. WR-715, AMENDMENT #1. SAID EASEMENT AMENDMENT INCLUDES AUTHORIZATION TO DRILL ADDITIONAL WELLS IN LOT 4 OF SEC 18, T-21-S, R-37-E, N.M.P.M."

Conditions

- 5C A totalizing meter shall be installed before the first branch of the discharge line form the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading shall be submitted to the District Supervisor for each calendar year on or before the 10th day of January of the following year.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- Q The State Engineer retains jurisdiction over this permit.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved
Action Date: 10/29/2015
PCW Due Date: 10/31/2017
PBU Due Date: 10/31/2019

State Engineer:

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

5/7/21 2:04 PM TRANSACTION SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

Υ X

20C52

CP 01850 POD1

18 21S 37E

669023 3594266

Driller License: 1753

FRIESSEN, JACOBOIEL.NER

Driller Company: VANGUARD WATER WELLS

Driller Name:

Drill Finish Date:

12/11/2020

Plug Date:

Log File Date:

Drill Start Date: 12/11/2020

PCW Rcv Date:

Source: Shallow

Pump Type:

12/23/2020

Pipe Discharge Size:

Estimated Yield: 20 GPM

Casing Size:

Released to Imaging: 8/2/2021 11:21:16 AM

5.00

Depth Well:

200 feet

Depth Water:

110 feet

Water Bearing Stratifications:

Top Bottom Description

198 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

90

180 200



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

13 21S 36E 60

7871 3594424*

O

Driller License: Driller Company:

CP 00446 POD1

Driller Name: FRANK TURNER

Drill Start Date: 10/31/1915 Drill Finish Date: 10/31/1915 Plug Date: Log File Date: PCW Rcv Date: Source:

Pump Type:TURBINPipe Discharge Size:2.25Estimated Yield:100 GPMCasing Size:8.63Depth Well:185 feetDepth Water:148 feet

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

4/19/21 12:55 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws

Q64 Q16 Q4 Sec Tws Rng

X Y

1 4 4 13 21S 36E

67871 3594424*



Driller License: Driller Company:

Driller Name: GRDAY ROBERTS

CP 00446 POD2

Drill Start Date: 12/31/1945 Drill Finish Date: 12/31/1945 Plug Date: Log File Date: PCW Rcv Date: Source:

Pump Type:TURBINPipe Discharge Size:4Estimated Yield:120 GPMCasing Size:8.63Depth Well:200 feetDepth Water:151 feet

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

4/19/21 12:56 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

18 21S 37E

3594451*

Driller License: 122 **Driller Company:**

UNKNOWN

Driller Name:

FRANK TURNER

Drill Finish Date:

Plug Date:

Shallow

Drill Start Date: Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 20 GPM

Casing Size:

7.00

CP 00447 POD1

Depth Well:

95 feet

Depth Water:

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

5/7/21 2:01 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00676

4 4 18 21S 37E

669548 3594352*

V

Driller License: 1196 Driller Company: MCCASLAND, DALLAS

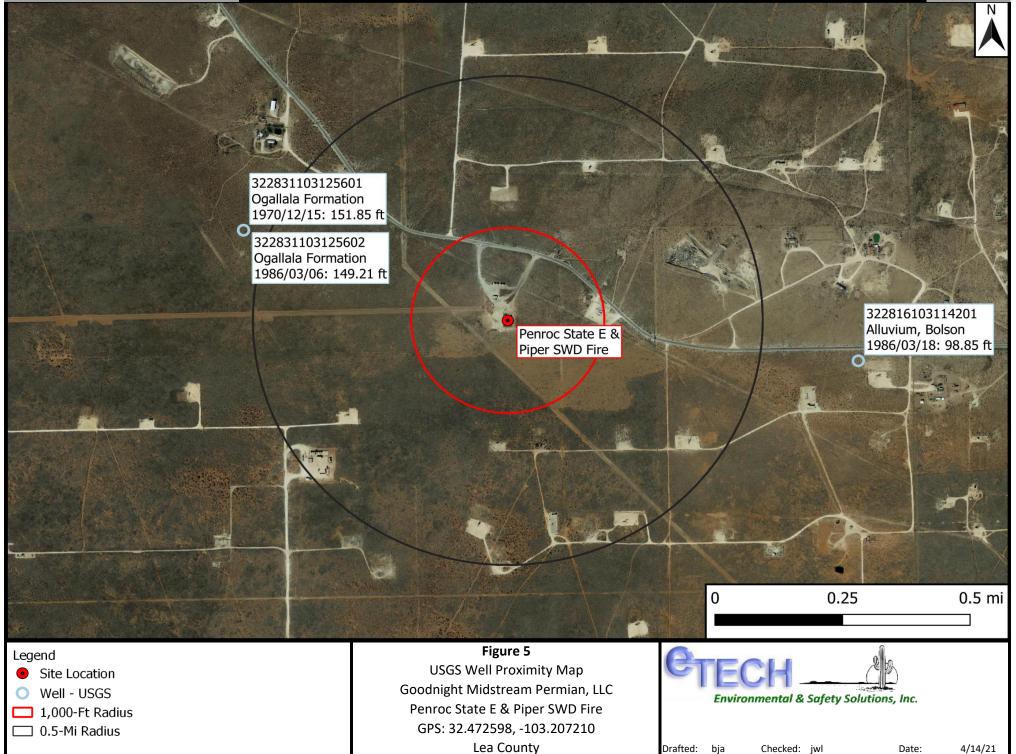
Driller Name: MCCASLAND, DALLAS

Drill Start Date: 04/29/1993 **Drill Finish Date:** 04/30/1993 **Plug Date:**

Log File Date:06/22/1994PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield: 20 GPMCasing Size:4.00Depth Well:140 feetDepth Water:106 feet

Water Bearing Stratifications: Top Bottom Description

100 106 Sandstone/Gravel/Conglomerate





National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category: Geographic Area:

Groundwater ✓ United States ✓ GO

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322831103125601

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

USGS 322831103125601 21S.36E.13.41223

Lea County, New Mexico Latitude 32°28'31", Longitude 103°12'56" NAD27 Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 200 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

Table of data											
<u> Tab-separate</u>	d data										
Graph of data	<u>a</u>										
Reselect peri	<u>od</u>										
Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
			72019								
1967-10	0-10	Г	72019	150.88				1	Z		,
1968-03	3-19	С	72019	150.97				1	Z		ļ
1970-12	2-15		72019	151.85				3	Z		/

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-04-14 17:09:51 EDT

0.31 0.29 nadww02





National Water Information System: Web Interface

USGS Water Resources

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Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

Agency code = usgs site no list =

• 322831103125602

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125602 21S.36E.13.412232

Lea County, New Mexico

Table of data

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 Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

Tab-separated	<u>data</u>										
Graph of data											
Reselect perio	<u>d</u>										
Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
			72019								
1967-10-	-10	D	72019	147.44				1	Z		А
1970-12-	-15	D	72019	147.81				1	Z		А
1981-03-	-09	D	72019	149.29				1	Z		А
1986-03-	-06	D	72019	149.21				1	Z		Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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0.32 0.28 nadww02





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Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

Agency code = usgs site no list =

• 322816103114201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322816103114201 21S.37E.18.442123

Lea County, New Mexico Latitude 32°28'16", Longitude 103°11'42" NAD27 Land-surface elevation 3,513 feet above NAVD88 The depth of the well is 125 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

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

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
			72019								
1954-01-10		D	72019	99.70				1	Z		Α
1968-03-13		D	72019	98.92				1	Z		А
1970-12-15		D	72019	99.66				1	Z		Α
1981-02-27		D	72019	98.82				1	Z		А
1986-03-18		D	72019	98.85				1	Z		Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-04-14 17:03:36 EDT

0.34 0.28 nadww01

Accessibility



Appendix B Field Data & Soil Profile Logs

			Piper SUP Fire
			6/25/19
	Λ-		
	PPI	y	Matthew Griew
Point Time	Clien	Chian	
SP1185 11:05	7100		
SP10@5 11:01	72728	4848	
SP9@5 11:11		4 4484	
SP8es 11:13		6084	
588@31	164		
SP705 11:15		3252	
Sph@ 5 11:18		3532	
585@S 11:23		2068	
> SP4@ 5 11:26		8900 €	- Isratur
583 05 11:29		5644	parit
582@5 11:34		4484	
58135_11:36		4148	
5810@1		1508	
5810@2		2504	
581083	L108	< 1184	
Spaci		3832	
589 e 2'	5.108	< 1199	
5pg @3'	164	5/194	
SP8011		3252	
58882'	[728		

Page 45 of 162

		Piper SW. 6/25/10	O fine
		,	w Griew
Sprez'	Thre Gion	CI high	
597e21		3832 1508	
SP2 @3'	1728		
SP3@11	604	< 1/84	
583 C 2'	1252		
593831	604		
59201	4108	<1184	V
58201	320		
573031	604		
5860 1	200	<1114	
586@ 21	200		
86831	364		
5P501	<108	<1184	
Sp5@2'	408200		,
5P5@31	200		
TRIEIL	556		
58102	(62)		
SPIE3	832		



Sample Log

Date:

8/14/2019

Project:

Piper SWD Fire

Project Number:

10769

Latitude:

32.472598

Longitude:

-103.20721

Sample ID	PID/Odor	Chloride Conc.	32.447251 GPS
TT-1@surt.	moderti	72428	32.47251, -103.207104
77-1071	Slight	1844	1+
77-103'	31 ight	377	1.
	3		
TT-20 Surt.	Slight	2482	32.47251, -103.20731
77-207'	None	1520	
77-204'	21	1348	
7-705'	11	896	
77-206	• (562	
17-2 07'	*1	712	
77-208'	**	452	
77-2 P9'	6.4	496	
77-30 Surt.	Heavy	2428	32,47766,-103,20737
77-304'	Slight	1520	14
17-305'	Slight	1348	h. 6,
17-306'	None	772	t _e fe
77-307'	Word	544	Sc P,
		3-10	
77-40 sul.	None	4108	32.47272, -103.20718
77-401'	- 1	148	32.5(16/2, 5105, 2011)
		140	1.
77-5-0 such.	Slight	1252	32.47267,-163.20716
77-5041	Slight	1620	72.77267, 7165. 20116
7-505'	10 one	944	i,
77-5 P6'	Nove	236	t. 'r
		2.74	
77-6 Pu'	None	2,572	32.47244 , -103.20723
77-400'	3.4	1,804	32.4/244 , -(03.2012)
77-607		402	46. 10
		101	
		· · ·	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

acon boundaries at any					Date:	11-Jul-19		
roject:	Piper SV	VD Fire						
roject Number:		10769	Latitude:	32.472598	Longitude:		-103.20721	
Pepth (ft. bgs)				Des	scription			
1		Topsoil						
3								
TD 4								
5 6		Caliche						
7								
8								
10								
11								
12 								
14								
15								
16 17								
18								
19 20								
21								
22								
23 24								
25								
26 27								
28								
29								
30 31								
32								
33 34								
35								
36				***************************************				
37 38			***************************************					
39								

Appendix C Laboratory Analytical Reports



July 16, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil
Project Name: PIPER SWD FIRE Sampling Condition: Cool

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

A | D.

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: A 2 (H902410-01)

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Sample Received By:

Tamara Oldaker

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 Location: GOODNIGHT MIDSTREAM - LEA CO NM

10769

Sample ID: A 3 (H902410-02)

Project Number:

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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		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	72.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.8	% 37.6-14	7						

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Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil Project Name: PIPER SWD FIRE Sampling Condition: Coo

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed Ry: me

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: A 4 (H902410-03)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		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	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	62.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	61.0	% 37.6-14	7						

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Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil PIPER SWD FIRE

Project Name: Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 10769 Sample Received By:

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 9	73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	73.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	72.1	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

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

 Received:
 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: Sample Received By: Tamara Oldaker

Analyzed Ry: me

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: B 2 (H902410-05)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	76.0	% 41-142							
Surrogate: 1-Chlorooctadecane	76.1	% 37.6-14	7						

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Analytical Results For:

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

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 Tamara Oldaker Project Number: 10769 Sample Received By:

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: B 3 (H902410-06)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	73.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	75.1	% 37.6-14	7						

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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: Sample Received By: Tamara Oldaker

Analyzed Ry: me

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: B 4 (H902410-07)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 73.3-129	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2019	ND	188	94.1	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	182	91.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142							
Surrogate: 1-Chlorooctadecane	79.7	% 37.6-14	7						

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Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact Project Number: Sample Received By: 10769 Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 1 (H902410-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	103 9	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	105 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: 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: Sample Received By: Tamara Oldaker

Analyzed Ry: me

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: C 2 (H902410-09)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	•						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Analytical Results For:

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

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

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact Project Number: Sample Received By: 10769 Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: C 3 (H902410-10)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	< 0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Analytical Results For:

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

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

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil Project Name: PIPER SWD FIRE Sampling Condition: Coo

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample ID: C 4 (H902410-11)

BTEX 8021B

	9/	9	71.14.17.20	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	98.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 10769 Sample Received By:

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: D 3 (H902410-12)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, 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		ı						
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Analytical Results For:

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

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

Received: 07/12/2019 Sampling Date: 07/11/2019 Reported: 07/16/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 10769 Sample Received By:

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 9	73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	1						
Surrogate: 1-Chlorooctadecane	99.0	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/12/2019 Sampling Date: 07/11/2019

Reported: 07/16/2019 Sampling Type: Soil Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker Project Number: 10769 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	19						
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						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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: Coo

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed Ry: me

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: E 6 (H902410-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2019	ND	2.07	103	2.00	2.53	
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03	
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87	
Total BTEX	<0.300	0.300	07/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	4500Cl-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. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Page 18 of 19

ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

	(575) 393-2326 FAX (575) 393-2	476																
Company Name:	Etech Environmental & Safety Solution	ons, Inc					BI	LL TO					ANA	LYSIS	REQUES	ST		
Project Manager	:			***************************************	I	P.O. #	# :											
Address: P.O	. Box 301		Washington or and			Comp	any: F	-tech	1									
City: Lovingto	n State: NM	Zip:	88260			Attn:			•									
Phone #: (575	5) 396-2378 Fax #: (575) 3	396-142	9		1	Addre	ess:										1	
Project #: ()	169 Project Owner Per Swo Fire	r: Go	odn	laht		City:												
Project Name:	iper Swo Fire	mi	15ta	20100	5	State: Zip:			<u>a</u>	5M)	21B							
Project Location	:) ea County		1-11	GX44-1	1	Phone #:			Chloride	801	BTEX (8021B)							
Sampler Name:	Lea County Hilda Villa				F	Fax #:				동	TPH (8015M)	X	1					
FOR LAB USE ONLY				MATR			RESERV	SAMPLI	NG	-	1	B						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER	WASTEWATER SOIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL OTHER:	DATE	TIME									
1	AZ	ī	1	V			VI	7-4-19	1:00m	V	V							
2	A3	V.	1	V		Saran	V,	7-11-19	1:05	V	11/	1						
3	Au	V	1	V,			1/	7-11-19	1:15	1/	1/	1						
4	BI	W.	(J			1	7-11-19	1:18	V	1	1/						
5	BZ	V	1	V,			1	7-11-19	1:77	1	/	V						
6	33	1	1	1			1/	7-11-19	1:30	V	-V	V						
1	B 4	V	1	1/			V	7-11-19	1:45	V	V,	0						
8	Cl	U	(1/			01	7-11-19	1:50	1	V	1/						
9	Ca	12	(0,			1	7-11-19	90.2	V	rV,	1						
10	<u>C3</u>		(U	7-11-19	9:32	V	V	V						
analyses. All claims including service. In no event shall Car affiliates or successors arisin	I Damages. Cardinal's liability and client's exclusive remedy for any those for negligence and any other cause whatsoever shall be drifted driftial be fable for incidental or consequental damages, including wit q out, of or related to the performance of services hereunder by Car	ned waived hout limitation	unless mad n, business	e in writing and interruptions, lo	received b	y Cardin or loss o	al within 30 da of profits incur	ays after completion red by client, its sub	of the applicable sidiaries,									
Relinquished By Relinquished By	Date: //2// Time! /4:5	Rec	eived I	gy: MUUR	ac		las	Sel	Phone Re Fax Resul REMARKS	t:	□ Ye			Phone: Fax #:				
Delivered By: Sampler - UPS		the		Sample Co Cool Im Yes I	act	П		(ED BY:	Please er	mail re	esults	to daniel	d@etech	nenv.co	om			

Page 19 of 19

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

ARDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safet		ic.					В	ILL TO					ANALYSIS REQUEST
Project Manage	** • • • • • • • • • • • • • • • • • •			1 17.41.41.41.41.41.41.41.41.41.41.41.41.41.		1	P.O.	#:						
Address: P.C). Box 301					0	Com	pany: E	tech]			
City: Lovingto	on State:	NM Zip	: 88	260			Attn:							
		(575) 396-1				1	Addr	ess:						
Project #: 107	-69 Projec	t Owner: 6	00	Anio	(to		City:					_	-	
Project Name: 3	Piper SWD Fire Lea County Hilda Wilh	m	ide	treat	n	5	State	:	Zip:		0	TPH (8015M)	21B	
Project Location	"Lea County					F	Phone #:			Chloride	801	STEX (8021B)		
Sampler Name:	Hilda Villa					F	Fax#:			ਤ	Ŧ	EX		
FOR LAB USE ONLY			П		MATRI	X	PRESERV. SAMPLING					=	B	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ICE / COOL	DATE	TIME				
11	04	i/	11		V,			VI	7-11-19	2:40	V	V	W/	
12	D3	V	11		V,			V	7-11-19	2:45	1	V	V	
13	B4	U	1		1			V	7-11-19	2:50	VI	V	V	
14	ES	ν	L		1	1		U	7-11-19		V/	V	V/	
15	Ele	U	1	-	V	1		0	7-11-19	3:00	V	V	V	
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		- Iumun												
CONTRACTOR OF THE PROPERTY OF			-				_			-	_		-	
analyses. All claims including service. In no event shall Ca	Time:	shall be deemed waiv including without limits inder by Cardinal, reg	ed unle ition, bu ardless	ss made in v	writing and r ruptions, los such claim i	eceived b	y Cardin or loss	nal within 30 o	tays after completion red by client, its si	on of the applicable obsidiaries,	sult:	□ Ye		□ No Add'l Phone #: □ No Add'l Fax #:
Relinquished By	Date:		ceiv	ed By:		C.T				Please e	mail re	esults	to pm	m@etechenv.com
Sampler - UPS	: (Circle One) - Bus - Other:	te A	9	Co	nple Co ol Inta Yes E No E	act	1		KED BY:					



July 16, 2019

KIM MERRILL

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions KIM MERRILL

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/15/2019 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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Celeg D. Freene



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: Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample ID: NSW # 2 (H902418-02)

BTEX 8260B

B I E R O E O O B	9	119	Analyzo	a By: IIIS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	99.6	% 90.4-11	1						
Surrogate: Toluene-d8	100	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.2	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	69.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



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

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample ID: ESW # 1 (H902418-03)

BTEX 8260B

DILX 0200D	ilig	r kg	Allalyze	u by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.9	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.7	% 80.1-12	21						
Chloride, SM4500CI-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	07/16/2019	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	17						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



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: Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample ID: ESW # 2 (H902418-04)

BTEX 8260B

BIEN GEGGE	9/	119	Analyzo	a By: iiis					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.6	% 90.4-11	1						
Surrogate: Toluene-d8	98.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	89.3	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Celeg & Freene



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 Sample Received By: Project Number: 10769 Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SSW # 1 (H902418-05)

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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: Sample Received By: 10769 Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample ID: WSW # 1 (H902418-06)

BTEX 8260B

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

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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 Sample Received By: Project Number: 10769 Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WSW # 2 (H902418-07)

BTEX 8260B	mg,	/kg	Analyze	ed 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	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

KIM MERRILL P.O. Box 301

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 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: Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

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

BTEX 8260B

DIEX OZOOB	9/	119	Analyzo	a By: IIIS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	98.5	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	87.8	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	66.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

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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: Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

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

BTEX 8260B

BIEN GEGGE	9	1.5	Analyzo	a By: IIIS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	100	% 90.4-11	1						
Surrogate: Toluene-d8	98.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.4	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	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

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

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

BTEX 8260B

	<u> </u>			,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/16/2019	ND	2.02	101	2.00	3.53	
Toluene*	<0.025	0.025	07/16/2019	ND	2.10	105	2.00	2.18	
Ethylbenzene*	<0.025	0.025	07/16/2019	ND	2.17	108	2.00	2.08	
Total Xylenes*	<0.075	0.075	07/16/2019	ND	7.06	118	6.00	1.10	
Total BTEX	<0.150	0.150	07/16/2019	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.5	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	56.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.5	% 37.6-14	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: Sample Received By: 10769 Tamara Oldaker

Analyzed By: ms

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

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

BTEX 8260B

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

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	e: Etech Environmental & Safety S	Solutions	, Inc							BIL	L TO						ANA	LYSIS	REC	QUES	T		
Project Manage	er: Kim Merrill						F	.O. #	# :														
Address: PO	Box 301						c	omp	any	: E	tedh												
City: Lov	vington St NM	Zi	o:	#			A	ttn:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
Phone #: 575	5 396 2378 Fax #:						A	ddre	ess:														
Project #:	10769 Project O	wner Go	odi	night I	MidS	Strea	am C	ity:															
Project Name:	Piper SWD	* The state of the		net (n. a. m. in min man			S	tate:	:		Zip:					1							
Project Locatio	n: Lea		F100-1-100-00-00				P	hone	e #:		minu		1										
Sampler Name:		tone commencements	derected a			NIN AND INCOME.		ax#	o)	· henre	umminiment		1		1								
FOR LAB USE ONLY			Т		MAT	RIX			ESE	RV.	SAMPL	ING	1							1			
Lab I.D. H902418	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021								
1	NSW #1	C			X				x		7/12/19	10:15	x	x	x								
2	NSW #2	С	1		X				x		7/12/19	10:17	×	x	x								
3	ESW #1	С	1		X				x		7/12/19	10:25	x	x	x								
4	ESW #2	С	1		X				x		7/12/19	10:77	×	×	x								
5	SSW #1	C	1		X				x		7/12/19	10:30	x	x	x								
6	WSW #1	C	1		X				x		7/12/19	10:70	x	x	x								
7	WSW #2	C	1		X				x		7/12/19	12:22	x	x	×								
8	Exc. B NSW	C	1		X				x		7/12/19	10:35	x	x	x								Telepolder con reterated
9	Exc. B ESTS√	C	1		X				x		7/12/19	10:37	x	x	x								a planta martin Martin
10	Exc. B SSW	C			X			\perp	X	\Box		10:38	х	x	x								
nalyses. All claims includiervice. In no event shall of filialities or successors are Relinquished B	7/15/11 Time: [0 r 0 2 Dates //5 Time: (1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	all be deemed that in the control of	waive t limitat il, rega ecei	d unless m ion, busine rdless of w ved B ved B Sa Cc	y: y: mple ool Yes No	Cor Intac	and records, loss of laim is be defined in the laim is because in the	eived by of use, of assed up	Cardinor loss of con any	ECK (Initi	in 30 days after ts incurred by cl above stated re	completion of the iert, its subsidiar asons or otherwing Phone Reference Resurements REMARK	e applicabiles, se. escult: alt: S:	□ Ye	ts to pm		Add'I	Phone Fax #:	11	chenv.c	om and	joel@ete	echenv.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

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

Company Name	e: Etech Environmental & Safety S									B	LL 10						ANAL	YSIS	RE	QUE	ST		
Project Manage	r: Kim Merrill							P.C). #:														
Address: PO	Box 301			······································				Cor	mpa	ny:	Etech		1										
City: Lov	rington St NM	Zi	p:	#				Att	n:														
Phone #: 575	396 2378 Fax #:							Add	dres	s:			1										
Project #:	10769 Project Ov	vner G	bod	night	Mid	Stre	am	City	y:								1 1						
Project Name:	Piper SWD							Sta	te:		Zip:												
Project Locatio	n: Lea							Pho	one	#:													
Sampler Name:	Joel Lowry							Fax	#:								1						
FOR LAB USE ONLY			Т		MA	TRIX	X		PRE	SERV	SAMPI	ING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME	Chloride	ТРН	BTEX 8021								
11	Exc. B WSW	C			X				-	x		10:40	x	x	x								
analyses. All claims includi service. In no event shall 0	nd Damages. Cardinal's liability and client's exclusive remed ng those for negligence and any other cause whatsoever shr andinal be liable for incidental or corsequental damages, inc ing out of or related to the performance of services hereund	If be deeme uding withou	d waive	ed unless tion, busin	made in	writing	g and nons, los	s of us	d by Co se, or k	ardinal w	ithin 30 days after ofits incurred by	r completion of the client, its subsidian	e applicabl	le e							Market Market State of State o		
Relinquished B	y: Date: 7/15/14 Time: 10:08	i R	ece	ived I	By:	e Co	ondition	C On	2	A CHEC	KED BY:	Phone Re Fax Resu REMARK	esult: lt: S:	Ye	s C	No No	Add'I P Add'I F	ax#:		echen	/.com ar	d joel@e	techenv.com



August 29, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

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

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

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: Sample Received By: Tamara Oldaker

A .. . l. d D. .. MC

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			9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Analyte Result Reporting Limi		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/28/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	672	10.0	08/28/2019	ND	232	116	200	0.504	QM-07
EXT DRO >C28-C36	192	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



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: Sample Received By: Tamara Oldaker

Analyzed By: MC

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

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

RTFY 8021R

B1EX 8021B	mg	^и кд	Anaiyze	ea 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	BTEX <0.300 0.300		08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte			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	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	45.8	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	12.1	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142							
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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 Sample Received By: Tamara Oldaker Project Number: 10769

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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	134	10.0	08/28/2019	ND	232	116	200	0.504	
EXT DRO >C28-C36	29.5	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

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Celeg D. Keene



Analytical Results For:

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

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

Received: 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

Analyzed By: MC

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

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

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea 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, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	229	114	200	3.48	
DRO >C10-C28*	<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						

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Celey D. Keine



Analytical Results For:

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

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/23/2019 Sampling Date: 08/16/2019

Reported: 08/29/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 10769

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	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	3210	10.0	08/28/2019	ND	234	117	200	3.14	QM-07
EXT DRO >C28-C36	938	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	?						
Surrogate: 1-Chlorooctadecane	190	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane

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Celeg D. Keene



Analytical Results For:

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

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

 Received:
 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

Analyzed By: MC

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

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

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	<10.0	10.0	08/28/2019	ND	234	117	200	3.14	
EXT DRO >C28-C36	16.6	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142							
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 08/23/2019 Sampling Date: 08/16/2019

Reported: 08/29/2019 Sampling Type: Soil

Project Name: PIPER SWD FIRE Sampling Condition: Cool & Intact
Project Number: 10769 Sample Received By: Tamara Oldaker

Analyzed By: MC

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

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

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.72	86.2	2.00	2.96	
Toluene*	<0.050	0.050	08/27/2019	ND	1.93	96.5	2.00	2.57	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	1.98	99.2	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.02	100	6.00	4.76	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2019	ND	227	113	200	0.151	
DRO >C10-C28*	<10.0	10.0	08/28/2019	ND	234	117	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/28/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142							
Surrogate: 1-Chlorooctadecane	115	% 37.6-14	7						

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Celey D. Keene



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: Sample Received By: Tamara Oldaker

Analyzed By: MC

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

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

RTFY 8021R

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

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

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

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Page 11 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CARDINAL Laboratories

Company Name	: Goodnight Midstream		_							BI	LL TO					ANA	ALYSIS	REC	QUEST	Г		
Project Manage	r: Daniel Dominguez					***************************************		P.0	O. #:													
Address: 310	00 Plains Hwy							Со	mpan	y:	Etech Environ	mental & Sat										
City: Lovingto	on Sta	ate: NM	Zip	: {	38260			Att	tn: Da	niel [Dominguez											
Phone #: 575		x#: 575-396-1	429					Ad	dress	P.O	. Box 301											
Project #: 107	769 Pr o	oject Owner:	God	odnig	ht Mid	strea	m Pe	Cit	ty: Lo	vingt	on											
Project Name:	Piper SWD Fire							Sta	ate: N	И	Zip: 88260											
Project Location	n: "M", 18, 21, 37, Lea							Ph	one #:	575	-396-2378											
Sampler Name:								Fa	x #: 57													
FOR LAB USE ONLY			<u>_</u>			MATE	RIX	1	PRES	ERV.	SAMPLI	NG .										
Lab I.D.	Sample I.	.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021							
)	TT-1 @ Surface		G	1		X			X		8/16/19		Х	X	X							
	TT-1 @ 4'	····	G	1		X	-	1	X		8/16/19		X	X	X					*************		
	TT-2 @ Surface		G	1		X		-	X		8/16/19		Х	X	X							
	TT-2 @ 9'		G	GERMON (-	X	-	-	X	-	8/16/19		X	X	X							
	TT-3 @ Surface		G			X		-	×	***************************************	8/16/19	***************************************	X	X	X						-	
	TT-3 @ 7'		G	1		X		-	×		8/16/19		X	X	X							
	TT-4 @ Surface		G	1		X	-	-	×		8/16/19		X	X	X							
8	TT-4 @ 1'		G	1		X	-	-	×	+	8/16/19		X	X	X		mmis immonomento	· Sintanovi i Alianovi				
							-	-		-												
	and Damages Cardinal's liability and clies		a state	Щ	bathaa b		1	1	aball bad	1	**			-						-		

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affiliates of successors arising out of or related to the performanc Relinquished By:	Date: 8-231	Received By	01111	Phone Result: Fax Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	-quantaria de la compania de la comp
Day Dons	Time: 3:35 n	Muara	Slage	REMARKS:	email results to	danield@etechenv.com	
Relinquished By	Date:	Received By:	,				
	Time:						
Delivered By: (Circle One) 5.2	ર્ટ	#97 Sample Condition Cool Intact	CHECKED BY: (Initials)				
Sampler - UPS - Bus - Other:	rected	5.6c PYes PYes	To-				

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

page 1 of 1

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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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 10/17/2019 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, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

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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

Sample Received By: Jodi Henson Project Number: GOODNIGHT MIDSTREAM - 10769

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	<u> </u>						
Surrogate: 1-Chlorooctadecane	115 9	% 37 6-1 <i>4</i>	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 Sample Received By: Project Number: GOODNIGHT MIDSTREAM - 10769 Jodi Henson

Project Location: UL M SEC18 T21S R37W

Sample ID: FLOOR 3 (H903563-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	73.3-12	9						
Chloride, 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	ı						
Surrogate: 1-Chlorooctadecane	102 9	37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: FLOOR 4 (H903563-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/22/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

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Analytical Results For:

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

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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: FLOOR 5 (H903563-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed 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	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	86.3	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

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		Analyzed 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	ı						
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: FLOOR 7 (H903563-07)

BTEX 8021B

DIEX GOZID	11197	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/19/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142							
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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Celey D. Kreine



10/14/2019

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:

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

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: FLOOR 8 (H903563-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	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, SM4500CI-B	mg,	/kg	Analyzed 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	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	85.4	% 41-142							
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-14	7						

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Celey D. Kreine



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

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: FLOOR 9 (H903563-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-129	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	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*	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	% 37.6-147	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: Sampling Type: Soil 10/23/2019

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, SM4500CI-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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Celeg D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: FLOOR 11 (H903563-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	< 0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-129	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	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	84.6	% 41-142							
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: FLOOR 12 (H903563-12)

BTEX 8021B

	9/	9	7	7: : : :					
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	% 73.3-129	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	88.8	% 41-142							
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

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Celeg & Frence



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: Sampling Type: Soil 10/23/2019

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

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		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	101 9	37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: NW 2 b (H903563-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-129	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.9	% 41-142							
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: Sampling Type: Soil 10/23/2019

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

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	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	1						
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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: EW 1 b (H903563-16)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	84.1	% 41-142	ı						
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: Sampling Type: Soil 10/23/2019

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

Project Location: UL M SEC18 T21S R37W

Sample ID: 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	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2019	ND	205	103	200	5.85	
DRO >C10-C28*	<10.0	10.0	10/19/2019	ND	197	98.5	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	10/19/2019	ND					
Surrogate: 1-Chlorooctane	90.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	109 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: Sampling Type: Soil 10/23/2019

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

Project Location: UL M SEC18 T21S R37W

Sample ID: EW 3 (H903563-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed 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: Sampling Type: Soil 10/23/2019

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

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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	106 %	6 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 396-1429

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

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

Project Number: GOODNIGHT MIDSTREAM - 10769 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: UL M SEC18 T21S R37W

ma/ka

Sample ID: SW 1 (H903563-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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: Sampling Type: Soil 10/23/2019

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

Project Location: UL M SEC18 T21S R37W

Sample ID: SW 2 b (H903563-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2019	ND	1.81	90.5	2.00	9.55	
Toluene*	<0.050	0.050	10/20/2019	ND	1.81	90.4	2.00	9.40	
Ethylbenzene*	<0.050	0.050	10/20/2019	ND	1.80	90.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	10/20/2019	ND	5.38	89.6	6.00	9.46	
Total BTEX	<0.300	0.300	10/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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 9	% 41-142	ı						
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: Sampling Type: Soil 10/23/2019

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

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	Analyze	d 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	ı						
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: Sampling Type: Soil 10/23/2019

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

Project Location: UL M SEC18 T21S R37W

Sample ID: SW 4 b (H903563-23)

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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: WW 1 b (H903563-24)

BTEX 8021B

	<u> </u>	<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2019	ND	1.88	93.9	2.00	5.62	
Toluene*	<0.050	0.050	10/19/2019	ND	1.89	94.7	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/19/2019	ND	1.90	95.0	2.00	5.65	
Total Xylenes*	<0.150	0.150	10/19/2019	ND	5.69	94.8	6.00	5.77	
Total BTEX	<0.300	0.300	10/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: 10/23/2019 Sampling Type: Soil

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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: WW 2 b (H903563-25)

BTEX 8021B

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, SM4500CI-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	ı						
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

Analyzed By: MS

Project Location: UL M SEC18 T21S R37W

mg/kg

Sample ID: WW 3 (H903563-26)

BTEX 8021B

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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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 396-1429

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

Reported: Sampling Type: Soil 10/23/2019

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

Project Location: UL M SEC18 T21S R37W

Sample ID: 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 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	2240	16.0	10/22/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2019	ND	209	104	200	2.83	
DRO >C10-C28*	<10.0	10.0	10/22/2019	ND	207	103	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	10/22/2019	ND					
Surrogate: 1-Chlorooctane	95.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Celey D. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

101 East Marland, Hobbs, NM 88240

Company Name	Goodnight Midstream Permian, LLC								3//	LL TO					ANALYSIS	REQUEST	
Project Manage	r: Daniel Dominguez						P.C	D. #:			45(4)41						
Address: 310	00 Plains Hwy						Co	mpany:		Etech Environme Solutions	ntal & Safety						
City: Lovingto	on State: NM	Zip		88260			Att	n: Dan	iel D	Dominguez							
Phone #: 575	5-396-2378 Fax #: 575-396-1	429					Ad	dress:	P.0	. Box 301							
Project #: 107	769 Project Owner:	Good	inight	Midstream	Permiar	, LLC	Cit	y: Lov	ingt	ton							
Project Name:	Piper SWD Fire						Sta	ate: NM		Zip: 88260							
Project Location	n: UL/ "M" Sec 18 T21S - R37W						Ph	one #:	575	-396-2378							
Sampler Name:	Daniel Dominguez						Fax	x #: 575-	-396	3-1429							
FOR LAB USE ONLY			П	1	MATRI	X		PRESE	RV.	SAMPLIN	IG		- 1				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021			
1	Floor 1	С	1		X			X		10/14/19	11:57	X	X	X			
2	Floor 2	С	1		X			Х		10/14/19	11:58	Х	X	X			
	Floor 3	С	1		X			X		10/14/19	11:59	Х	Х	X			
4	Floor 4	С	1		X			X		10/14/19	12:00	Х	X	X			
5	Floor 5	С	1		X			X		10/14/19	12:01	Х	X	X			
le	Floor 6	С	1		X			Х		10/14/19	12:02	Х	X	X			
マ	Floor 7	С	1		X			X		10/14/19	12:03	Х	X	X			
3	Floor 8	С	1		X			X		10/14/19	12:04	Х	X	X			
	Floor 9	С	1		X			X		10/14/19	12:05	Х	X	X			
DI FACE NOTE: Linking	Floor 10	С	1		X			X		10/14/19	12:06	Х	Х	X			

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: 10 17	Received By:	Phone Result:
deldon	Time: 4:41	gran sunson	REMARKS: email results to danield@etechenv.com
Relinquished By:	Date:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2	52 2.98	Sample Condition CHECKED BY Cool Intact (Initials) Yes Yes No No	Y:

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

Page 31 of 32



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

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

Company Name	: Goodnight Midstream F								3/	11 70					ANALYSIS	REQUEST	
Project Manage	r: Daniel Dominguez						P.	0. #:									
Address: 310	00 Plains Hwy						Co	mpan	y:	Etech Environme Solutions	ntal & Safety						
City: Lovingto	on State:	NM Zij	o:	882	260		At	tn: Da	aniel [Dominguez					1 1		1 1 1
Phone #: 575	i-396-2378 Fax #:	575-396-1429					Ad	ldress	: P.O	. Box 301			11.				
Project #: 107	69 Projec	t Owner: Go	odnigh	t Midst	tream Permi	an, LL	Cit	ty: Lo	oving	ton							
Project Name:	Piper SWD Fire						Sta	ate: N	М	Zip: 88260							
Project Location	n: UL/ "M" Sec 18 T21S -	R37W					Ph	one #	575	-396-2378							1 1 1
Sampler Name:	Daniel Dominguez		_	_			Fa	x #: 57	5-396	6-1429							
FOR LAB USE ONLY					MATE	RIX		PRES	ERV.	SAMPLIN	IG						1 1 1
Lab I.D. H903563	Sample I.D.	(G)RAB OR (C)OMP.	AINE	GROUNDWATER	WASTEWATER SOIL	OIL	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021			
(1	Floor 11	C	1		X			×	(10/14/19	12:07	X	Х	X			
12	Floor 12	C	1		X			×	(10/14/19	12:08	Х	X	X			
	NW1b	C	1		X			×	(10/14/19	12:15	Х	Х	X			
14	NW2b	C	1		X			×	(10/14/19	12:20	X	X	X			
	NW3b	C	1		X	4		×	(10/14/19	12:25	Х	Х	X			
16	EW1b	C	1		X	4	-	×	(10/14/19	12:30	Х	Х	X			
. (5)	EW2	C	1		X	-	-	>	(10/14/19	12:35	Х	Х	X			
	EW3	C	1		X			>	(10/14/19	12:40	Х	X	X			
19	EW4b	C			X			>		10/14/19	12:45	Х	X	X			
DI EASE NOTE: Liability a	SW1	C	1		X			>	(10/14/19	12:50	X	Х	X			

analyses, All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: /4/1>	Received By:	HULLDON	Phone Result: Fax Result:	☐ Yes ☐ No☐ Yes ☐ No☐	Add'l Phone #: Add'l Fax #:	
datidos	Time: 4.41	COM 1	JUNGOV -	REMARKS:	email results to	danield@etechenv.com	
Relinguished By:	Date:	Received By:					
	Time:			1			
Delivered By: (Circle One) +,4	200	Sample Co Cool Inta		-			
Sampler - UPS - Bus - Other: 2,5	290	Yes I	1-1/1/				

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

Page 32 of 32



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2021 11:21:16 AM

101 East Marland, Hobbs, NM 88240

Company Name	: Goodnight Midstream F	Permian, LLC								BI	LL TO					ANALYSIS	REQUES	T		
Project Manage	r: Daniel Dominguez							P.C	D. #:											
Address: 310	0 Plains Hwy							Co	mpan		Etech Environme Solutions	ntal & Safety								
City: Lovingto	on State:	NM Zi	p:	88	260			Att	n: Da	aniel D	Dominguez							1 1		
Phone #: 575	-396-2378 Fax #:	575-396-1429						Ad	dress	: P.O	. Box 301							1 1		
Project #: 107	69 Projec	ct Owner: G	oodni	ght Mids	stream	Permia	n, LLC	Cit	y: Lo	oving	ton							1 1		
Project Name:	Piper SWD Fire							Sta	ate: N	M	Zip: 88260							1 1		
Project Location	n: UL/ "M" Sec 18 T21S -	R37W						Ph	one #	: 575	-396-2378							1 1		
Sampler Name:			_	_				_	x #: 57	_								1 1		
FOR LAB USE ONLY					N	IATR	IX		PRES	ERV.	SAMPLIN	IG								
Lab I.D. H903563	Sample I.D.	COPAR OR COME	# CONTAINEDS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021					
	SW2b	(1		X			×	(10/14/19	12:55	Х	Х	Х					
22	SW3b	(3	1		X	4		×	(10/14/19	13:00	X	Х	X					
23	SW4b			1		X			>	(10/14/19	13:05	Х	X	X			-		1
	WW1b	(1		X			>		10/14/19	13:10	X	X	X			-	_	
	VVW2b			1		X	4		>	-	10/14/19	13:14	X	Х	X			-	_	-
m.,	VVW3	(1		X	+	-	>		10/14/19	13:19	Х	X	X			-	_	-
27	VVW4	(1		X		-)	(10/14/19	13:24	X	X	X					+
			+	-		+	-	-										1	-	+
			+	-		+	-	+					_					1		-
DI FACE NOTE: U.S.	and Damages. Cardinal's liability and client's e	untimina samadu facanu ali	Jan ar	leien un	other bo	end in a	entract	or tort	shall be li	mitad to	the amount paid b	y the client for th								

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Relinquished By:	Date: 10/17	Received By:	0	Phone Result: Fax Result:	□ Yes	□ No	Add'l Phone #: Add'l Fax #:
deito	Time: 4.41	guar sens	on_	REMARKS:	email re	sults to	danield@etechenv.com
Relinquished By:	Date:	Received By:					
V +//	Time.						
Delivered By: (Circle One)		Sample Condition	(Initials)				
Sampler - UPS - Bus - Other: 2.5	2.9%	Yes Yes	A TO				

[†] Cardinal cannot accept verbal changes. Please tax written changes to 575-393-2476



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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/12/2020 Sampling Date: 02/10/2020

Reported: 02/14/2020 Sampling Type: Soil Project Name: PIPER SWD FIRE Sampling Condition: Coo

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

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name:	Etech Environmental			Ç.								B//	L TO						ANA	LYSI	RE	QUES	ST			
Project Manager:	: Joel Lowry	BOTOICI ATTOIONING MANAGEMENT OF THE							P.C	D. #:																
Address: P.O.	. Box 301								Co	mpa	ny:		Ete	ech]							1				
City: Lovington	n	State: NM	Zip:	882	260			1 1	Att		Tomor Comment										1	1				
Phone #: (575	5) 396-2378	Fax #: (575) 39	6-14	29					Ad	dres	s:															
Project #: 1076	69	Project Owner:		Goo	dnigh	ht Mic	stre	am	Cit	y:							_									
Project Name:	Piper SWD Fire								Sta	ate:			Zip:		0	SM)	21B									
Project Location:	: Lea		***********						Ph	one	#:				Chloride	TPH (8015M)	BTEX (8021B)		1							
Sampler Name:	David Robinson	- Alteria							Fax	x #:					동	Ŧ	EX									
FOR LAB USE ONLY						MA	ATR	IX		PRE	SE	RV.	SAMPLI	NG		=	B									
Lab I.D.	Sample I.I	D .	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
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nalyses. All claims including ervice. In no event shall Car	d Damages. Cardinal's liability and client's e those for negligence and any other cause rdinal be liable for incidental or consequent, o put of ar. calatal it is the performance of st	whatsoever shall be deeme al damages, including without	d waive	ed unle	ss made usiness i	in writin	ng and ions, k	receive	ed by C	ardinal loss of	within profits	30 day	s after completions by client, its su	n of the applicable bsidiaries,												
Relinquished By	600	Date: 2/12/20 Time: 15:30	Re	ceiv	ed B	sy:	241	1	6	la	a	K	ed	Phone Re Fax Resu REMARK	lt:	□ Y ₁		□ No		I Phone I Fax #						
Relinquished By	:	Date: Time:	Re	ceiv	ed B	By:					0)		Please e	mail r	esults	to da	nield(Detec	henv.c	om ar	nd pma	@etec	henv.c	om.	
Delivered By: Sampler - UPS	: (Circle One) - Bus - Other:	13 0.		6	1	amploori	im	act Tye	S	~	,	ECK (Initi	ED BY: als)			203110	10 00				J., W		9-1-0			

eurofins Environment Testing

Certificate of Analysis Summary 690604

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Piper SWD

Project Id: Contact:

Project Location:

Joel Lowry

Date Received in Lab: Fri 03.05.2021 12:20

Report Date: 03.15.2021 14:01

Project Manager: Jessica Kramer

	Lab Id:	690604-0	001	690604-0	002	690604-0	003	690604-0	004	690604-0	005	
Anadania Danasata I	Field Id:	Floor 2 @	® 5'	Floor 4 @	9 5'	Floor 5 @	5'	Floor 8 @	5'	Floor 9 @	5'	
Analysis Requested	Depth:	5- ft										
	Matrix:	SOIL										
	Sampled:	03.03.2021	00:00	03.03.2021	00:00	03.03.2021	00:00	03.03.2021	00:00	03.03.2021	00:00	
BTEX by EPA 8021B	Extracted:	03.12.2021	17:00	03.12.2021	17:00	03.12.2021	17:00	03.12.2021	17:00	03.12.2021	17:00	
	Analyzed:	03.13.2021	00:51	03.13.2021	01:12	03.13.2021	01:33	03.13.2021	01:54	03.13.2021	03:18	
	Units/RL:	mg/kg	RL									
Benzene	·	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00396	0.00396	< 0.00398	0.00398	
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00199	0.00199	
Chloride by EPA 300	Extracted:	03.09.2021	14:45	03.09.2021	14:45	03.09.2021	14:45	03.09.2021	14:45	03.09.2021	14:45	
	Analyzed:	03.09.2021	17:32	03.09.2021	17:37	03.09.2021	16:57	03.09.2021	17:02	03.09.2021	17:07	
	Units/RL:	mg/kg	RL									
Chloride		226	4.95	89.4	4.95	479	4.95	236	5.02	136	4.97	
TPH By SW8015 Mod	Extracted:	03.09.2021	12:00	03.09.2021	12:00	03.09.2021	12:00	03.09.2021	12:00	03.09.2021	12:00	
	Analyzed:	03.09.2021	17:45	03.09.2021	18:06	03.09.2021	18:27	03.09.2021	18:49	03.09.2021	19:10	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	
Total TPH		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	

BRL - Below Reporting Limit

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

Jessica Weamer

Analytical Report 690604

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Piper SWD

03.15.2021

Collected By: Client



1211 W. Florida Ave Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



03.15.2021

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 690604

Piper SWDProject Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 690604. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 690604 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 690604



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 2 @ 5'	S	03.03.2021 00:00	5 ft	690604-001
Floor 4 @ 5'	S	03.03.2021 00:00	5 ft	690604-002
Floor 5 @ 5'	S	03.03.2021 00:00	5 ft	690604-003
Floor 8 @ 5'	S	03.03.2021 00:00	5 ft	690604-004
Floor 9 @ 5'	S	03.03.2021 00:00	5 ft	690604-005

Xenco

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Piper SWD

Project ID: Report Date: 03.15.2021 Work Order Number(s): 690604 Date Received: 03.05.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 2 @ 5'

Matrix: Soil

Date Received:03.05.2021 12:20

Lab Sample Id: 690604-001

Date Collected: 03.03.2021 00:00

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: CHE

CHE

Date Prep: 03.09.2021 14:45

% Moisture:

Basis:

Wet Weight

Seq Number: 3153100

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	4.95	mg/kg	03.09.2021 17:32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

Analyst: ARM Seq Number: 3153146 Date Prep: 03.09.2021 12:00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	03.09.2021 17:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	03.09.2021 17:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	03.09.2021 17:45	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	03.09.2021 17:45	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	95	%	70-130	03.09.2021 17:45
o-Terphenyl	84-15-1	98	%	70-130	03.09.2021 17:45



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 2 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-001 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 03.12.2021 17:00 % Moisture:

Seq Number: 3153566

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	03.13.2021 00:51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.13.2021 00:51	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	03.13.2021 00:51	
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.13.2021 00:51	



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 4 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-002

Date Collected: 03.03.2021 00:00

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

Date Prep:

% Moisture:

CHE Analyst: Seq Number: 3153100 03.09.2021 14:45

03.09.2021 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.4	4.95	mg/kg	03.09.2021 17:37		1

Analytical Method: TPH By SW8015 Mod

DVM Tech:

ARM Analyst: Seq Number: 3153146

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	03.09.2021 18:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	03.09.2021 18:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	03.09.2021 18:06	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	03.09.2021 18:06	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Date Prep:

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	96	%	70-130	03.09.2021 18:06
o-Terphenyl	84-15-1	100	%	70-130	03.09.2021 18:06



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 4 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-002 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

% Moisture: KTL Analyst: Date Prep: 03.12.2021 17:00

Basis: Wet Weight Seq Number: 3153566

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.13.2021 01:12	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.13.2021 01:12	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	104	%	70-130	03.13.2021 01:12		



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 5 @ 5'

Matrix: Soil

Date Received:03.05.2021 12:20

Lab Sample Id: 690604-003

Date Collected: 03.03.2021 00:00

Sample Depth: 5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

CHE

CHE

Date Prep:

03.09.2021 14:45

% Moisture:

Basis: Wet Weight

Seq Number: 3153100

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 479
 4.95
 mg/kg
 03.09.2021 16:57
 1

Analytical Method: TPH By SW8015 Mod

Tech:

Tech:

Analyst:

DVM

Analyst: ARM Seq Number: 3153146

Date Prep:

03.09.2021 12:00

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	03.09.2021 18:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	03.09.2021 18:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	03.09.2021 18:27	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	03.09.2021 18:27	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

1-Chlorooctane 111-85-3 111 % 70-130 03.09.2021 18:27 o-Terphenyl 84-15-1 112 % 70-130 03.09.2021 18:27



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 5 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-003 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 03.12.2021 17:00 % Moisture:

Seq Number: 3153566

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.13.2021 01:33	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.13.2021 01:33	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.13.2021 01:33	
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.13.2021 01:33	



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 8 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

> Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

CHE

Analyst:

Date Prep: 03.09.2021 14:45

% Moisture:

Seq Number: 3153100

Lab Sample Id: 690604-004

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	236	5.02	mg/kg	03.09.2021 17:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DVM Tech:

ARM Analyst: Seq Number: 3153146

Date Prep: 03.09.2021 12:00 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	03.09.2021 18:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	03.09.2021 18:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	03.09.2021 18:49	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	03.09.2021 18:49	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	92	%	70-130	03.09.2021 18:49
o-Terphenyl	84-15-1	96	%	70-130	03.09.2021 18:49

Wet Weight



Certificate of Analytical Results 690604

Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 8 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-004 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 03.12.2021 17:00 % Moisture: Basis:

Seq Number: 3153566

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	03.13.2021 01:54	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	03.13.2021 01:54	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.13.2021 01:54	
4-Bromofluorobenzene	460-00-4	105	%	70-130	03.13.2021 01:54	



Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 9 @ 5' Matrix: Soil

Date Received:03.05.2021 12:20

Lab Sample Id: 690604-005 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

CHE Analyst:

Date Prep: 03.09.2021 14:45

Basis: Wet Weight

Seq Number: 3153100

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	136	4.97	mg/kg	03.09.2021 17:07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

ARM Analyst: Seq Number: 3153146

03.09.2021 12:00 Date Prep:

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	03.09.2021 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	03.09.2021 19:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	03.09.2021 19:10	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	03.09.2021 19:10	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	95	%	70-130	03.09.2021 19:10
o-Terphenyl	84-15-1	98	%	70-130	03.09.2021 19:10

Wet Weight

U



Certificate of Analytical Results 690604

Etech Environmental & Safety Solution, Inc, Midland, TX

Piper SWD

Sample Id: Floor 9 @ 5' Matrix: Soil Date Received:03.05.2021 12:20

Lab Sample Id: 690604-005 Date Collected: 03.03.2021 00:00 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Total BTEX

Seq Number: 3153566

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	03.13.2021 03:18	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	03.13.2021 03:18	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	03.13.2021 03:18	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	03.13.2021 03:18	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	03.13.2021 03:18	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	03.13.2021 03:18	U	1

0.00199

mg/kg

03.13.2021 03:18

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.13.2021 03:18	
4-Bromofluorobenzene	460-00-4	100	%	70-130	03.13.2021 03:18	

< 0.00199



Flagging Criteria

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

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Flag

QC Summary 690604

Etech Environmental & Safety Solution, Inc

Piper SWD

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3153100Matrix: SolidDate Prep:03.09.2021

MB Sample Id: 7722902-1-BLK LCS Sample Id: 7722902-1-BSD

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride <5.00 250 251 100 251 100 90-110 0 20 mg/kg 03.09.2021 14:04

Analytical Method: Chloride by EPA 300 Prep Method: E300P

 Seq Number:
 3153100
 Matrix:
 Soil
 Date Prep:
 03.09.2021

 Parent Sample Id:
 690309-048
 MS Sample Id:
 690309-048 S
 MSD Sample Id:
 690309-048 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 03.09.2021 16:35 Chloride 33.4 250 285 101 285 101 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

 Seq Number:
 3153100
 Matrix:
 Soil
 Date Prep:
 03.09.2021

 Parent Sample Id:
 690309-062
 MS Sample Id:
 690309-062 S
 MSD Sample Id:
 690309-062 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 20 03.09.2021 16:05 179 253 428 98 428 98 90-110 0 mg/kg

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

 Seq Number:
 3153146
 Matrix:
 Solid
 Date Prep:
 03.09.2021

 MB Sample Id:
 7722928-1-BLK
 LCS Sample Id:
 7722928-1-BKS
 LCSD Sample Id:
 7722928-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 03.09.2021 11:46 945 95 20 < 50.0 1000 1040 104 70-130 10 mg/kg 03.09.2021 11:46 Diesel Range Organics (DRO) 1010 101 70-130 20 < 50.0 1000 994 99 2 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Date Flag %Rec Flag 03.09.2021 11:46 1-Chlorooctane 96 99 99 70-130 % 03.09.2021 11:46 o-Terphenyl 100 90 89 70-130 %

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Seq Number: 3153146 Matrix: Solid Date Prep: 03.09.2021

MB Sample Id: 7722928-1-BLK

 Parameter
 MB Result
 Units Date
 Analysis Date
 Flag

 Motor Oil Range Hydrocarbons (MRO)
 <50.0</td>
 mg/kg
 03.09.2021 11:25
 03.09.2021 11:25

Motor Oil Range Hydrocarbons (MRO) <50.0 mg/kg 03.09.2021 11:25

Flag

QC Summary 690604

Etech Environmental & Safety Solution, Inc

Piper SWD

 Analytical Method:
 TPH By SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3153146
 Matrix:
 Soil
 Date Prep:
 03.09.2021

 Parent Sample Id:
 690312-001
 MS Sample Id:
 690312-001 S
 MSD Sample Id:
 690312-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.0	1000	931	93	944	95	70-130	1	20	mg/kg	03.09.2021 12:49	
Diesel Range Organics (DRO)	< 50.0	1000	893	89	902	90	70-130	1	20	mg/kg	03.09.2021 12:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		90		70-130	%	03.09.2021 12:49
o-Terphenyl	79		79		70-130	%	03.09.2021 12:49

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3153566Matrix:SolidDate Prep:03.12.2021MB Sample Id:7723262-1-BLKLCS Sample Id:7723262-1-BKSLCSD Sample Id:7723262-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.108	108	0.104	104	70-130	4	35	mg/kg	03.12.2021 20:23
Toluene	< 0.00200	0.100	0.104	104	0.0983	98	70-130	6	35	mg/kg	03.12.2021 20:23
Ethylbenzene	< 0.00200	0.100	0.101	101	0.0962	96	70-130	5	35	mg/kg	03.12.2021 20:23
m,p-Xylenes	< 0.00400	0.200	0.206	103	0.193	97	70-130	7	35	mg/kg	03.12.2021 20:23
o-Xylene	< 0.00200	0.100	0.0995	100	0.0943	94	70-130	5	35	mg/kg	03.12.2021 20:23

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		103		98		70-130	%	03.12.2021 20:23
4-Bromofluorobenzene	104		101		96		70-130	%	03.12.2021 20:23

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW 5035A

 Seq Number:
 3153566
 Matrix:
 Soil
 Date Prep:
 03.12.2021

 Parent Sample Id:
 690437-002
 MS Sample Id:
 690437-002 S
 MSD Sample Id:
 690437-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0976	98	0.0990	100	70-130	1	35	mg/kg	03.12.2021 21:04	
Toluene	< 0.00200	0.100	0.0934	93	0.0934	94	70-130	0	35	mg/kg	03.12.2021 21:04	
Ethylbenzene	< 0.00200	0.100	0.0894	89	0.0914	92	70-130	2	35	mg/kg	03.12.2021 21:04	
m,p-Xylenes	< 0.00400	0.200	0.184	92	0.184	92	70-130	0	35	mg/kg	03.12.2021 21:04	
o-Xylene	< 0.00200	0.100	0.0887	89	0.0895	90	70-130	1	35	mg/kg	03.12.2021 21:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		70-130	%	03.12.2021 21:04
4-Bromofluorobenzene	103		103		70-130	%	03.12.2021 21:04

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(C\text{-A}) \, / \, B \\ RPD &= 200* \mid (C\text{-E}) \, / \, (C\text{+E}) \mid \\ [D] &= 100*(C) \, / \, [B] \end{split}$$

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

 $\begin{array}{ll} C &= MS/LCS \; Result \\ E &= MSD/LCSD \; Result \end{array}$

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

Received by OCD: 5/13/2021 6:54:57 AM



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:	090604
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												www.xer	nco.com	Page/	of	
roject Manager:	Joel Lowry	-	Bill to: (if different)	Go	odn'	ìsh	+ 1	nid	Stram			Work	Order C	omments		
Company Name:	Etech Environmental & Safe	ety	Company Name:		Sal	me	•	960	ove	Progran	n: UST/PS	T PRF	Brown	ıfield∐ RR(∐	Superfund [
ddress:	3100 Plains Highway		Address:							1	State of Project:					
ity, State ZIP:	Lovington, NM, 88260		City, State ZIP:							Reporting:Level Level P				PST/US TRF Level /		
hone:	575-396-2378	Email:	Email Results to	PM@e	techer	nv,con	n + Clie	+ Client Deliverables: EDD ADa					ADaPT	Other:		
Project Name:	PiperswD	Tu	rn Around					ANAL	YSIS REQU	JEST				Preserva	tive Codes	
roject Number:		Routi	671											HNO3: HN		
roject Location		Rush												H2S04: H2		
ampler's Name:	Dustin Crocke	Due I	Date:		1									HCL: HL		
PO#:			ese.											None: NO		
SAMPLE REC	EIPT Temp Blank: Ye	s (No) Wet Ice:	(es No	10 m		1								NaOH: Na		
emperature (°C):	2,5	Thermometer	- William											MeOH: Me		
teceived Intact:	Yes No	118	CS_21486998			EX								Zn Acetate+ Na	aOH: Zn	
Cooler Custody Sea Sample Custody Se	AND THE RESERVE AND THE PARTY OF THE PARTY O	rection Factor:	0.5	E300	£		905								day recevied by the ved by 4:30pm	
	entification Matrix [Date Time mpled Sampled	Depth Depth	a a	BTEX 8021	TPH Modified	TPH TX1005							Sample	Comments	
Floor 20	0.51 5011 3-	3-21	5'	Ž	K	1										
Floor 4e	5' /		51	Z	L	7										
Floor Se	5' (51	1/2	X	X										
Floor 8e	5'	()	5'	X	1	X										
	S')	51	K	X	1										
			• .			,										
	·															
Total 200.7 /	/ 6010 200.8 / 6020:	8RCRA 13PP	M Texas 11 Al	Sb As	Ва	Be B	Cd C	a Cr	Co Cu Fe	Pb Mg N	In Mo N	K Se	Ag SiO2	Na Sr Ti S	n U V Zn	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Lan Crenche	Hessie Rant	3-4-21	2 1 1 1 -	Mamel	3/5/21
3			4	7	1220
5		,	6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 03.05.2021 12.20.00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 690604

Temperature Measuring device used: IR8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headspa	ace?	N/A	

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

Checklist completed by: Brianna Teel Date: 03.05.2021

PH Device/Lot#:

Checklist reviewed by: Jession Veramer Date: 03.09.2021

Analyst:

Appendix D Photographic Log

Photo Number:

1
Photo Direction:

Southeast

Photo Description:

View of 2018 Penroc State E release



Photo Number:

2

Photo Direction:

Southeast

Photo Description:

View of 2018 Penroc State E release



Photo Number:

3

Photo Direction:

North

Photo Description:



View of 2018 Penroc State E release

Photo Number:

4

Photo Direction:

Northwest

Photo Description:

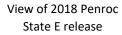




Photo Number:
5
Photo Direction:
South
Photo Description:

View of a portion of the excavation south of the former SWD



Photo Number:
6
Photo Direction:
South
Photo Description:

View of a portion of the excavation south of the former SWD



Photo Number: 7 Photo Direction:

West
Photo Description:

View of a portion of the excavation south of the former SWD



Photo Number:

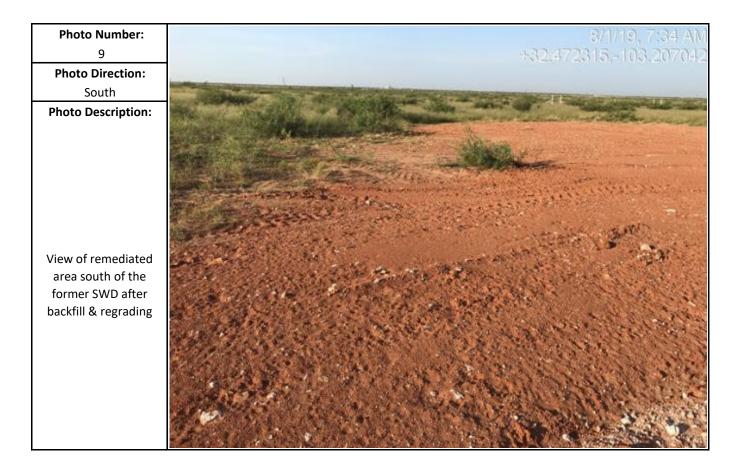
8

Photo Direction: North-Northwest

Photo Description:

View of a portion of the excavation east of the former SWD





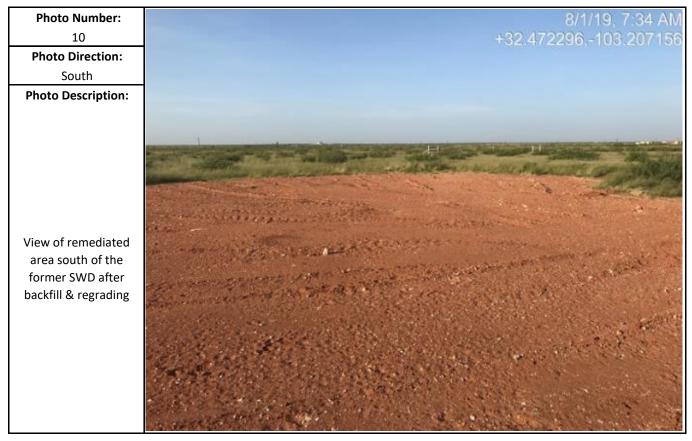


Photo Number:

11

Photo Direction: South

Photo Description:

View of remediated area south of the former SWD after backfill & regrading



Photo Number:

12

Photo Direction: North

Photo Description:

View of the initial surface scrape after removal of the SWD equipment and containment area



Photo Number: 13

Photo Direction: South

Photo Description:

View of a portion of the excavation under the former SWD containment area



Photo Number:

14

Photo Direction:Southeast

Photo Description:

View of a portion of the excavation under the former SWD containment area



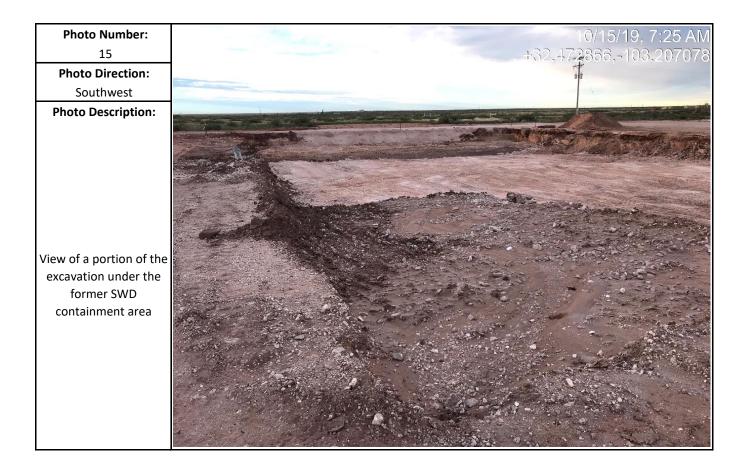


Photo Number: 16 **Photo Direction:** Northwest **Photo Description:**

View of a portion of the excavation under the former SWD containment area



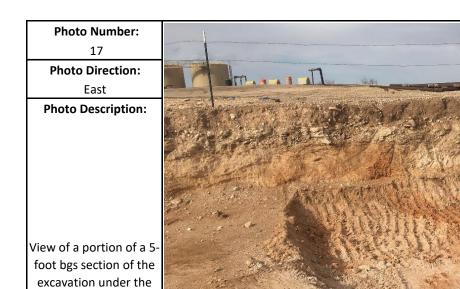


Photo Number: 18 Photo Direction: Northeast

former SWD containment area

Photo Description:

View of liner installation



Photo Number:

19

Photo Direction:

Southwest

Photo Description:

View of remediated area after backfill and regrading



Photo Number:

20

Photo Direction:

Northwest

Photo Description:

View of remediated area after backfill and regrading



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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

CONDITIONS

Action 28026

CONDITIONS

Operator:	OGRID:
GOODNIGHT MIDSTREAM PERMIAN, LLC	372311
5910 North Central Expressway	Action Number:
Dallas, TX 75206	28026
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Sample points WW1B, WW2B, WW3, and WW4 meet closure criteria on >51ft.	8/2/2021