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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2125861315
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Lega	cy Reserves Ope	erating, LP	OGRID 24			
Contact Name Dwight Mallory				Contact Te	Contact Telephone 720-726-9728		
Contact ema	^{il} dmallory	@legacyreserve	s.com	Incident #	(assigned by OCD)	nAPP2125861315	
		15 Smith Road,		705			
			Location	of Release So	ource		
Latitude 32.3	33335		(NAD 83 in dec	Longitude _ imal degrees to 5 decin	-103.14992 nal places)		
Site Name SF	PAU Injection	on Line		Site Type	Flow Line - Injection	ı	
Date Release				API# (if app	plicable) NA		
					1		
Unit Letter	Section	Township	Range	Cour	nty		
J	3	23S	37E	Lea	3		
Surface Owne	r: State	☐ Federal ☐ Tr	ribal 🔽 Private (A	Name: Doyal Dort	hy Et Al)	
			Nature and	l Volume of l	Release		
Crude Oi		l(s) Released (Select al Volume Release		calculations or specific	justification for the volume Volume Recovered		
✓ Produced	water		d (bbls) Unknowr		Volume Recovered	(DDIS)	
		Is the concentrate produced water	ion of dissolved cl >10.000 mg/l?	hloride in the	Yes No		
Condensa	nte	Volume Release			Volume Recovered	l (bbls)	
☐ Natural G	ias	Volume Release	d (Mcf)		Volume Recovered	l (Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Re	ecovered (provide units)	
Cause of Rel	^{ease} The re	lease is attribute	d to the failure of	a fiberglass trun	l k line.		

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Incident ID	nAPP2125861315
District RP	2RP-4334
Facility ID	
Application ID	

XX 41:	ICVEC C 1 / () 1 /1	11 4 11 11 1 0					
Was this a major	If YES, for what reason(s) does the respon	1 0					
release as defined by 19.15.29.7(A) NMAC?	Unauthorized release of an unknown v	olume, excluding gases, of 25 barrels or more.					
17.13.27.1(1) 1							
✓ Yes ☐ No							
If VFS was immediate n	tice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?					
· ·	had Hensley, 9/15/2021, voice message						
1 63, Dwight Mailory, Oi	nad Hensley, 9/10/2021, voice message						
	Initial D	agnongo					
	Initial R	esponse					
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury					
The source of the rele	ease has been stopped.						
	as been secured to protect human health and	the environment					
	•						
l		likes, absorbent pads, or other containment devices.					
✓ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.					
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:					
		emediation immediately after discovery of a release. If remediation					
		efforts have been successfully completed or if the release occurred					
		blease attach all information needed for closure evaluation.					
		best of my knowledge and understand that pursuant to OCD rules and					
		fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have					
failed to adequately investig	gate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In					
	of a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws					
and/or regulations.							
Printed Name: Dwight N	M allory	Title: Director, EHS					
Signature: <i>Wwight</i>	-Mallory	Date: 7/25/2022					
email: dmallory@legac	0	Telephone: 720-726-9728					
eman. dinanory@icgac	yreserves.com	1616phone. 120 120 0120					
0000							
OCD Only							
Received by:		Date:					
1.0001/04/05/1							

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Incident ID nAPP2125861315 District RP 2RP-4334 Facility ID **Application ID**

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ✓ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ✓ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes 🗌 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	tical extents of soil

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

	•
<u>C</u>	haracterization Report Checklist: Each of the following items must be included in the report.
✓	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
✓	Field data
✓	Data table of soil contaminant concentration data
\checkmark	Depth to water determination
✓	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
\checkmark	Boring or excavation logs
\checkmark	Photographs including date and GIS information
<u></u>	Topographic/Aerial maps

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

Laboratory data including chain of custody

Received by OCD: 7/27/2022 7:59:27 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

		P	a	g	e	4	oj	f.	1	8.	2	
_	=	_	_		_							

Incident ID	nAPP2125861315
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Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Dwight Mallory	Title: Director, EHS				
Signature: Dwight Mallory	Date: 7/25/2022				
email: dmallory@legacyreserves.com	Telephone: 720-726-9728				
OCD Only					
Received by:	Date:				

Marke of New Mexico

Incident ID	nAPP2125861315
District RP	2RP-4334
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.				
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation points ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Dwight Mallory	Title: Director, EHS				
Signature: Dwight Mallory	Date: 7/25/2022				
email: dmallory@legacyreserves.com	Telephone: 720-726-9728				
OCD Only					
Received by:	Date:				
☐ Approved with Attached Conditions of	Approval				
Signature: Jennifer Nobui	Date: 08/02/2022				

Remediation Summary & Backfill Request

Legacy Reserves Operating, LP SPAU Injection Line

Lea County, New Mexico
Unit Letter J, Section 3, Township 23 South, Range 37 East
Latitude 32.3333502 North, Longitude 103.1499243 West
NMOCD Reference No. nAPP2125861315

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland Hobbs, New Mexico 88240

Matthew Grieco

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site and Sample Location Map

TABLES

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

APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Soil Profile Log

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Legacy Reserves Operating, LP (Legacy), has prepared this *Remediation Summary & Backfill Request* for the release site known as the SPAU Injection Line (henceforth, "Site"). Details of the release are summarized below:

	Locat	ion of Release Sou	rce				
Latitude:	32.3333502	Longitude:	-103.1499243				
	Provi	ided GPS are in WGS84 format.					
Site Name:	SPAU Injection Line	Site Type:	Flowline				
Date Release Discove	ered: 9/15/2021	API # (if applical	ble): N/A				
Unit Letter S	ection Township	Range	County				
J	3 23S	37E	Lea				
Surface Owner:		al X Private (Name					
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)					
X Produced Water	Volume Released (bbls)	Unknown	Volume Recovered (bbls) 0				
	Is the concentration of diss produced water > 10,000 n		X Yes No N/A				
Condensate	Volume Released (bbls) Volume Recovered (bbls)						
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released		Volume/Weight Recovered				
Cause of Release: Failure of a fiberglas	ss transfer line.						
	1	Initial Response					
X The source of the	e release has been stopped.						
X The impacted are	ea has been secured to protect h	uman health and the env	ironment.				
X Release material	s have been contained via the us	se of berms or dikes, abs	orbent pad, or other containment devices				
X All free liquids a	nd recoverable materials have b	een removed and manag	ged appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the 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.

What is the shallowest depth to groundwater beneath the area affected by the release?	67 Feet				
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?	Yes	X 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 and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation 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
67 Feet	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 October 14, 2021, Legacy contracted Etech to assess and remediate the release at the Site. Legacy provided Etech with a laboratory analytical report detailing their initial sampling activities. Based on those analytical results, soil was affected above the NMOCD Reclamation Standards and NMOCD Closure Criteria to a depth greater than five (5) feet below ground surface (bgs). Etech determined that additional horizontal and vertical delineation was required at the Site.

On October 19, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing olfactory/visual senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, twelve (12) delineation soil samples (NH, EH, SH, WH, SP1, and SP2, each at Surface and 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards was adequately defined.

On January 4, 2022, Etech returned to the Site. Continuing the initial site assessment, a series of test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. During the advancement of the handaugered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing olfactory/visual senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, four (4) delineation soil samples (1/4 TT - 1 20', 1/4 TT - 1 21', 1/4 TT - 3 4', and 1/4 TT - 4 7') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 4, 2022, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On January 4, 2022, Etech collected two (2) confirmation soil samples (FL #1 @ 3' and SW-3). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On January 5, 2022, Etech collected three (3) confirmation soil samples (FL #3 @ 7', SW-1, and SW-2). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On January 6, 2022, Etech collected two (2) wall confirmation soil samples (WW-1 and WW-2). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On February 28, 2022, Etech collected sixteen (16) confirmation soil samples (FL # 1 @ 14' through FL # 14 @ 5', EW-2, and SW-4). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

In addition, Etech collected two (2) delineation soil samples (TT -1 @ 14' and TT -2 @ 24'). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On March 2, 2022, Etech collected thirty-four (34) floor confirmation soil samples (FL # 15 @ 14' through FL # 44 @ 4'). The collected soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Etech also collected four (4) wall confirmation soil samples (NW # 2 through NW # 5). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample NW # 2, which exhibited a chloride concentration of 960 mg/kg.

In addition, Etech collected nine (9) delineation soil samples (TT - 3 @ 15' through TT - 8 @ 6'). The collected soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On March 7, 2022, Etech collected one (1) wall confirmation soil sample (EW-1). The collected soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in the submitted soil sample.

On July 6, 2022, Etech collected one (1) wall confirmation soil sample (NW2 @ 0'-4') from the uppermost four (4) feet in the area characterized by sample point NW # 2. The collected soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated a chloride concentration below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in the submitted soil sample.

Approximately 5,140 cubic yards of impacted soil was excavated and transported to an NMOCD-permitted surface waste facility. The dimensions of the excavated area are 155 feet in length, fifty (50) to eighty (80) feet in width, and three (3) to fourteen (14) feet in depth. Further vertical excavation of affected material was precluded due to safety concerns associated with the depth of the excavation and the potential instability of the suspended section of pipeline.

A site and sample location map is provided as Figure 3. Soil profile logs are provided as Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

6.0 BACKFILL REQUEST

Remediation activities conducted to date meet the objectives of the NMOCD. Laboratory analytical results from excavation confirmation soil samples indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech proposes the following activities to advance the closure of the Site:

- Backfill the excavated area using locally sourced, non-impacted material suitable to the landowner. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.
- Upon completion of backfilling activities, the affected area will be reseeded with a landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.
- Upon completion of remediation activities, Etech will prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from excavation confirmation soil samples for submission to the NMOCD.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Backfill 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 Legacy Reserves Operating, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Legacy Reserves Operating, LP.

8.0 DISTRIBUTION

Legacy Reserves Operating, LP 303 W. Wall St. Midland, TX 79701

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

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

Figure 3 Site and Sample Location Map

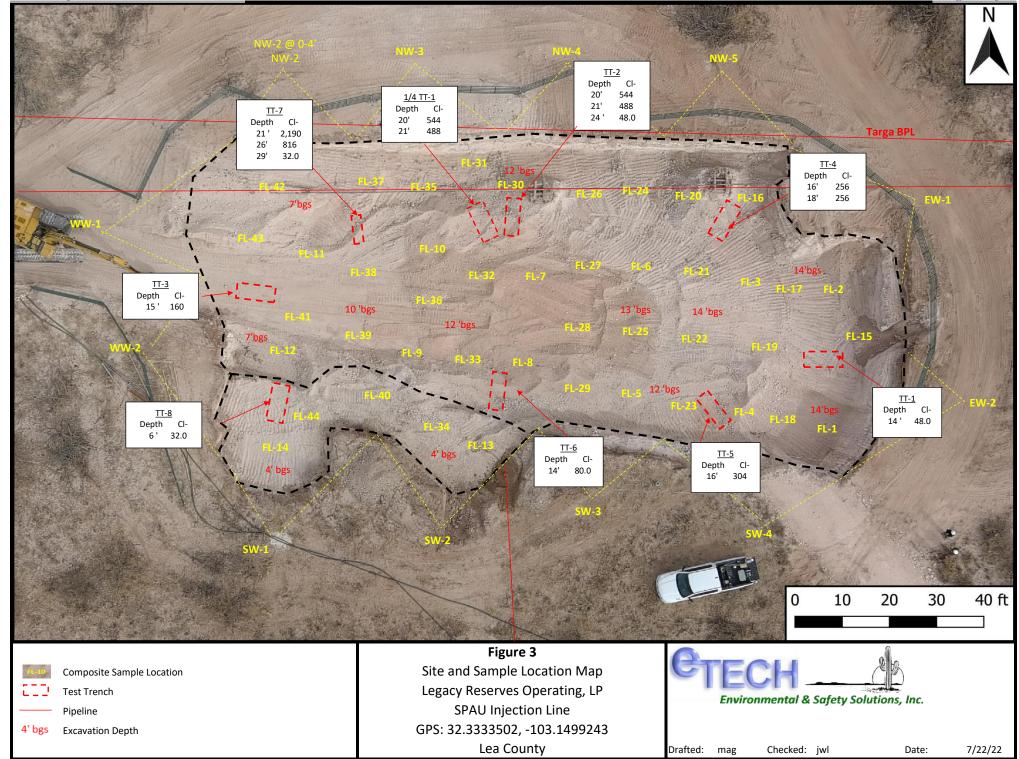


Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

	Table 1										
			Concer	ntrations o	of BTEX, T	ГРН, and	Chloride i	n Soil			
					Reserves	_	-				
					PAU Inje						
				NMOCI	D Ref. #: n	APP2125	861315				
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000
NMOCD	Reclamation	Standard	1	10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	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)
				ī	Initial Site A		ī				
INJ C - 1	9/30/2021	5	Excavated	1.74	107	1,670	7,650	9,320	1,230	10,600	6,800
INJ NW - 1	9/30/2021	0.67	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
INJ SE - 1	9/30/2021	0.67	Excavated	10.000	< 0.300	<10.0	29.6	29.6	<10.0	29.6	6,320
EH @ Surface	10/19/2021	0	Excavated	10.00200		<49.8	<49.8	<49.8	<49.8	<49.8	18.3
EH @ 1'	10/19/2021	1	Excavated	(0.001))		< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	246
NH @ Surface	10/19/2021	0	Excavated			<49.8	<49.8	<49.8	<49.8	<49.8	424
NH @ 1'	10/19/2021	1		< 0.00202		<50.0	< 50.0	<50.0	< 50.0	<50.0	236
SH @ Surface	10/19/2021	0	Excavated	< 0.00201		<49.9	<49.9	<49.9	<49.9	<49.9	336
SH @ 1'	10/19/2021	1	Excavated			<49.9	<49.9	<49.9	<49.9	<49.9	501
WH @ Surface		0	Excavated			<49.9	<49.9	<49.9	<49.9	<49.9	231
WH @ 1'	10/19/2021	1	Excavated	10.00201		<49.9	<49.9	<49.9	<49.9	<49.9	117
SP1 @ Surface		0		< 0.00199		<49.9	<49.9	<49.9	<49.9	<49.9	270
SP1 @ 1'	10/19/2021	1		< 0.00199		<49.9	<49.9	<49.9	<49.9	<49.9	104
SP2 @ Surface		0		< 0.00199		< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	104
SP2 @ 1'	10/19/2021	1		< 0.00200	< 0.00399	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	87.6
1/4 TT - 1 20'	1/4/2022	20	In-Situ	-	-	-	-	-	-	-	544
1/4 TT - 1 21'	1/4/2022	21	In-Situ	-	-	-	-	-	-	-	448
1/4 TT - 3 4'	1/4/2022	4	In-Situ	-	-	-	-	-	-	-	176
1/4 TT - 4 7'	1/4/2022	7	In-Situ	-	-	-	-	-	-	-	224
	1		1	T	Excava		T				
FL #1 @ 3'	1/4/2022	3	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL # 1 @ 14'	2/28/2022	14	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL # 2 @ 12'	2/28/2022	12	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #3 @ 7'	1/5/2022	7	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL # 3 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL # 4 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL # 5 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL # 6 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL # 7 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL # 8 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL # 9 @ 12'	2/28/2022	12	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,360
FL # 10 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL # 11 @ 7'	2/28/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL # 12 @ 7'	2/28/2022	7	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,840
FL # 13 @ 5'	2/28/2022	5	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL # 14 @ 5'	2/28/2022	5	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL # 15 @ 14'	3/2/2022	14	In-Situ		-	-	-	-	-	-	112
FL # 16 @ 14'	3/2/2022	14	In-Situ		-	-	-	-	-	-	32.0
FL # 17 @ 14'	3/2/2022	14	In-Situ		-	-	-	-	-	-	64.0
FL # 18 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	304

Dash (-): Sample not analyzed for that constituent. **Bold:** NMOCD Closure Criteria exceedance.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Legacy Reserves Operating, LP SPAU Injection Line NMOCD Ref. #: nAPP2125861315

NMO	CD Closure C	riteria		10	50	_		1,000		2,500	10,000
	Reclamation			10	50	-	_	-	<u> </u>	100	600
				SW 840				100	4500 Cl		
Sample ID	Date	Depth (Feet)	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)
FL # 19 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	240
FL # 20 @ 12'	3/2/2022	12	In-Situ	-	1	-	=	-	-	-	48.0
FL # 21 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	528
FL # 22 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	320
FL # 23 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	688
FL # 24 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	368
FL # 25 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	576
FL # 26 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	48.0
FL # 27 @ 13' FL # 28 @ 13'	3/2/2022	13	In-Situ In-Situ	-	-	-	-	-	-	-	48.0
FL # 28 @ 13 FL # 29 @ 13'	3/2/2022	13	In-Situ In-Situ		-	-	-	-	-	-	256 48.0
FL # 29 @ 13 FL # 30 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	880
FL # 31 @ 12'	3/2/2022	12	In-Situ								48.0
FL # 32 @ 12'	3/2/2022	12	In-Situ	_	_	_	_	_	_	_	960
FL # 33 @ 12'	3/2/2022	12	In-Situ	_	_	_	_	_	_	_	48.0
FL # 34 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	96.0
FL # 35 @ 10'	3/2/2022	10	In-Situ	-	-	-	-	-	-	-	144
FL # 36 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	416
FL # 37 @ 6'	3/2/2022	6	In-Situ	-	-	-	-	-	-	-	512
FL # 38 @ 10'	3/2/2022	10	In-Situ	-	-	-	-	-	-	-	5,360
FL # 39 @ 10'	3/2/2022	10	In-Situ	-	ı	1	-	-	-	-	496
FL # 40 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	208
FL # 41 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	1,060
FL # 42 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	400
FL # 43 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	96.0
FL # 44 @ 4'	3/2/2022	4	In-Situ	- 0.050	- 200	- 10.0	- 10.0	- 20.0	- 10.0	- 20.0	176
EW-1 EW-2	3/7/2022	0-14	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0 48.0
NW2 @ 0'-4'	2/28/2022 7/6/2022	0-14	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW # 2	3/2/2022	4-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
NW # 3	3/2/2022	0-12	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW # 4	3/2/2022	0-12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW # 5	3/2/2022	0-12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW-1	1/5/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-2	1/5/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-3	1/4/2022	0-12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-4	2/28/2022	0-14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW-1	1/6/2022	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW-2	1/6/2022	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT -1 @ 14'	2/28/2022	14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT -2 @ 24'	2/28/2022	24	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

 $\label{eq:Dash of Constituent} \textbf{Dash (-): Sample not analyzed for that constituent.}$

Bold: NMOCD Closure Criteria exceedance.

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Legacy Reserves Operating, LP
SPAU Injection Line
NMOCD Ref. #: nAPP2125861315

NMC	NMOCD Closure Criteria			10	50	-	-	1,000	-	2,500	10,000
NMOCI	NMOCD Reclamation Standard			10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	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)
TT - 3 @ 15'	3/2/2022	15	In-Situ	-	-	-	-	-	-	-	160
TT - 4 @ 16'	3/2/2022	16	In-Situ	-	-	-	-	-	-	-	256
TT - 4 @ 18'	3/2/2022	18	In-Situ	ı	-	-	-	-	-	-	256
TT - 5 @ 16'	3/2/2022	16	In-Situ	-	-	-	-	-	-	-	304
TT - 6 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	80.0
TT - 7 @ 21'	3/2/2022	21	In-Situ	-	-	-	-	-	-	-	2,190
TT - 7 @ 26'	3/2/2022	26	In-Situ	ı	-	-	-	-	-	-	816
TT - 7 @ 29'	3/2/2022	29	In-Situ	ı	-	-	-	-	-	-	32.0
TT - 8 @ 6'	3/2/2022	6	In-Situ	-	-	-	-	-	-	-	32.0

Appendix A Depth to Groundwater Information



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

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

(In feet)

	POD Sub-		0 0	0							Wa	ater
POD Number	Code basin	County	64 16	4 Sec	Tws	Rng	X	Y	DistanceDe	pthWellDe	pthWater Col	
<u>CP 01104 POD1</u>	CP						673178	3578773	956	21		
<u>CP 00561</u>	CP	LE	3 3	3 34	22S	37E	673324	3579834*	1239	137	60	77
<u>CP 01005 POD1</u>	CP	LE	3 4	2 10	23S	37E	674560	3577487	1467	95		
<u>CP 00143 POD1</u>	CP	LE	1 1	4 34	22S	37E	674121	3580450*	1560	140		

Average Depth to Water:

60 feet

Minimum Depth:

60 feet

Maximum Depth:

60 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 674127.42 **Northing (Y):** 3578889.92 **Radius:** 1610

*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.

10/14/21 7:55 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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)

673324

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

CP 00561 3 3 3 34 22S 37E

3579834*

Driller License: 576 **Driller Company:** STONE, T.J.

Driller Name: STONE, T.J.

Drill Start Date: 12/26/1976 **Drill Finish Date:** 12/29/1976 **Plug Date:**

Log File Date:01/11/1977PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:15 GPMCasing Size:6.63Depth Well:137 feetDepth Water:60 feet

Х	Water Bearing Stratifications:	Тор	Bottom	Description
		65	80	Sandstone/Gravel/Conglomerate
		80	128	Sandstone/Gravel/Conglomerate
X	Casing Perforations:	Тор	Bottom	
		65	128	

^{*}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.

10/14/21 7:56 AM

POINT OF DIVERSION 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

X Y

CP 01104 POD1

673178 3578773

3176 3376773

Driller License: 1478 Driller Company:
Driller Name: STRAUB, MARTIN (LD)

Drill Start Date: 09/10/2012

Drill Finish Date:

09/10/2012

Plug Date:

Log File Date:

09/27/2012

PCW Rcv Date:

Source:

STRAUB CORPORATION

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

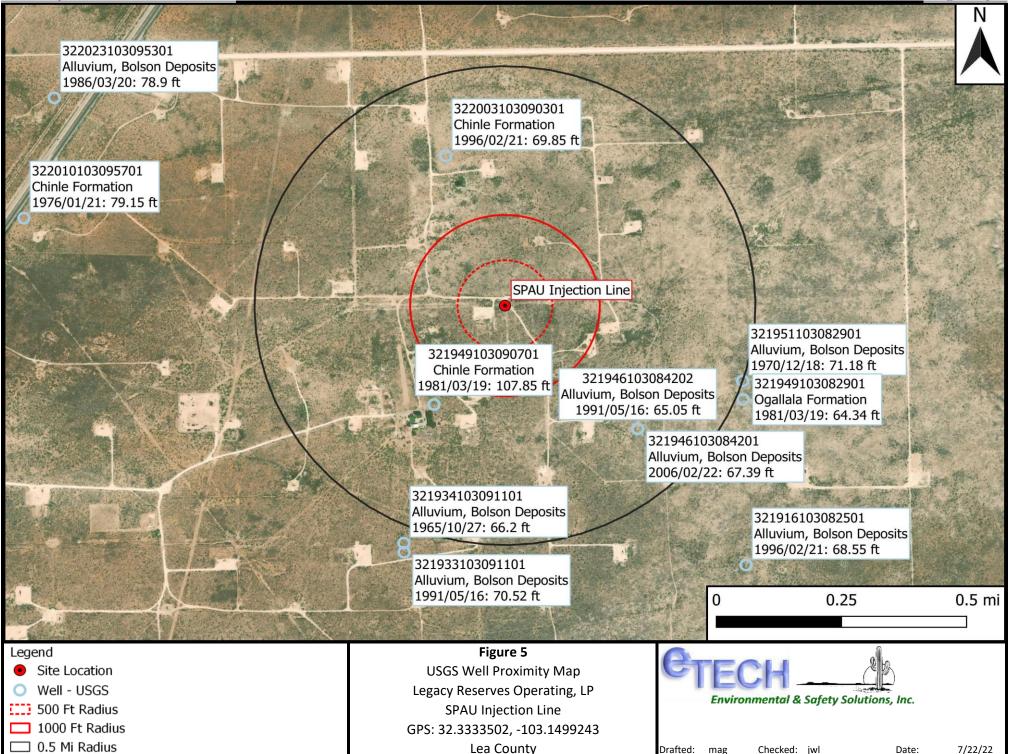
21 feet

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, or suitability for any particular purpose of the data.

10/14/21 7:56 AM

POINT OF DIVERSION SUMMARY





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National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
osds water resources	Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 321946103084201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321946103084201 23S.37E.03.42123

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'46", Longitude 103°08'42" NAD27

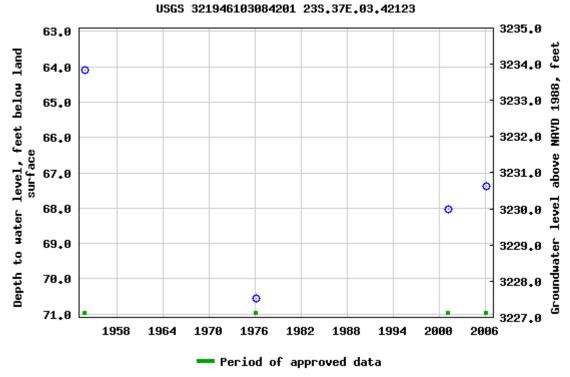
Land-surface elevation 3,298 feet above NAVD88

The depth of the well is 75 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.

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



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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0.57 0.49 nadww01





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Agency code = usgs **site_no list** = • 321946103084202

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321946103084202 23S.37E.03.42123A

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'46", Longitude 103°08'42" NAD27

Land-surface elevation 3,298 feet above NAVD88

The depth of the well is 80 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.

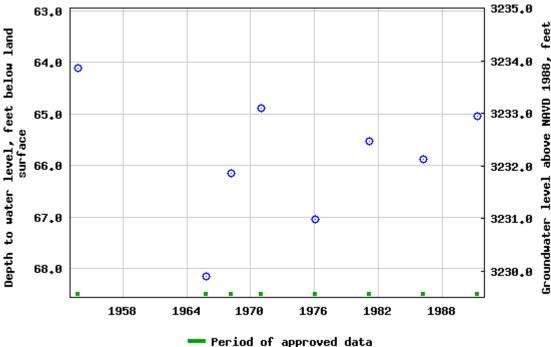
Table of data

Tab-separated data

Graph of data

Reselect period





— Lei Tod OL appi oved data

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0.54 0.49 nadww01





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USGS Water Resources	Data Category:	Geographic Area:	
03d3 Water Resources	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** = • 321949103090701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321949103090701 23S.37E.03.323444

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'49", Longitude 103°09'07" NAD27

Land-surface elevation 3,297 feet above NAVD88

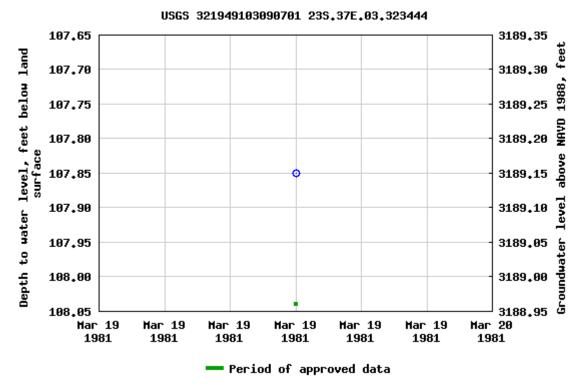
The depth of the well is 380 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Page Last Modified: 2021-10-14 09:51:17 EDT

0.56 0.51 nadww01





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USGS Water Resources	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 =

322003103090301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322003103090301 23S.37E.03.124441

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°20'16", Longitude 103°09'05" NAD27

Land-surface elevation 3,304.00 feet above NGVD29

The depth of the well is 350 feet below land surface.

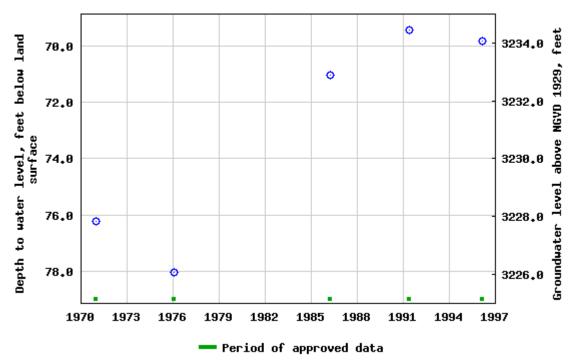
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

USGS 322003103090301 235.37E.03.124441



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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0.58 0.52 nadww01



Appendix B Soil Profile Logs



Soil Profile Log

Etech Project Number:15018Location: Lea County, NMLogged By: J. LowrySite Name:SPAU Injection LineCoordinates:32.3333502,-103.1499243Draft Date:6/30/2022Client:Legacy Reserves Operating, LPPLSS:UL "J" (NW/SE), Sec. 3, T23S, R37EDrafted By:B. ArguijoNMOCD Incident ID:nAPP2125861315Depth to Groundwater (ft):65-70Checked By:J. Lowry

Comm	ents: N//	A	
Depth (ft)	Lithology	Material Description	Additional Observations
-	}	Brown Topsoil	N/A
		Light Alkali Topsoil	N/A
	2:08	Resilent Caliche/Calcrete	N/A
- 5			
		Caliche	N/A
- 10	3000		
15			
13			
		Reddish/Brown Sand	N/A
- 20			
25			
		Total Depth: 29 ft	
- 30		Notes: Lines between material types represent approximate boundaries. Actual transitions may be gradual.	

Disclaimer: This log is intended for environmental not geotechnical purposes.

Appendix C Laboratory Analytical Reports



October 06, 2021

DWIGHT MALLORY
LEGACY RESERVES - DENVER
1775 SHERMAN STREET, SUITE 1400
DENVER, CO 80203

RE: SPAU INJ

Enclosed are the results of analyses for samples received by the laboratory on 10/01/21 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

LEGACY RESERVES - DENVER DWIGHT MALLORY 1775 SHERMAN STREET, SUITE 1400 DENVER CO, 80203 Fax To:

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

Received: 10/01/2021
Reported: 10/06/2021
Project Name: SPAU INJ

Project Name: SPAU INJ
Project Number: NONE GIVEN
Project Location: LEA CO NM

Sampling Date: 09/30/2021

Sampling Type: Soil

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

Sample ID: INJ NW - 1 (H212727-01)

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	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	<0.050	0.050	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	<0.050	0.050	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	<0.150	0.150	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	<0.300	0.300	10/01/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	10/04/2021	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	10/01/2021	ND	228	114	200	1.21	
DRO >C10-C28*	<10.0	10.0	10/01/2021	ND	224	112	200	0.138	
EXT DRO >C28-C36	<10.0	10.0	10/01/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.3	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

LEGACY RESERVES - DENVER DWIGHT MALLORY 1775 SHERMAN STREET, SUITE 1400 DENVER CO, 80203 Fax To:

Received: 10/01/2021 Reported: 10/06/2021

 10/01/2021
 Sampling Date:
 09/30/2021

 10/06/2021
 Sampling Type:
 Soil

 SPALLINI
 Sampling Condition:
 Cool & Intac

Project Name: SPAU INJ
Project Number: NONE GIVEN
Project Location: LEA CO NM

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

Sample ID: INJ SE - 1 (H212727-02)

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	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	<0.050	0.050	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	<0.050	0.050	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	<0.150	0.150	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	<0.300	0.300	10/01/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	10/04/2021	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	10/01/2021	ND	228	114	200	1.21	
DRO >C10-C28*	29.6	10.0	10/01/2021	ND	224	112	200	0.138	
EXT DRO >C28-C36	<10.0	10.0	10/01/2021	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.3	% 38.9-14	2						

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Celeg D. Freene



Analytical Results For:

LEGACY RESERVES - DENVER DWIGHT MALLORY 1775 SHERMAN STREET, SUITE 1400 DENVER CO, 80203 Fax To:

Received: 10/01/2021 Reported: 10/06/2021

Project Name: SPAU INJ
Project Number: NONE GIVEN
Project Location: LEA CO NM

Sampling Date: 09/30/2021

Sampling Type: Soil

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

Sample ID: INJ C - 1 (H212727-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.74	0.500	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	10.1	0.500	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	28.3	0.500	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	67.1	1.50	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	107	3.00	10/01/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/04/2021	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1670	10.0	10/01/2021	ND	228	114	200	1.21	
DRO >C10-C28*	7650	10.0	10/01/2021	ND	224	112	200	0.138	
EXT DRO >C28-C36	1230	10.0	10/01/2021	ND					
Surrogate: 1-Chlorooctane	311	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	250	% 38.9-14	2						

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Celeg & Frence



Notes and Definitions

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

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 6 of 6

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	LEGALY RE	3 BRJES							ic C		B	IL	L TO						ANA	LYSI	S RE	QUE	ST			
Project Manage	r: DWIGHT M	ALLORY							P.O.	#:																
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FOR LAB USE ONLY	0010111					MA	TRIX			-	SERV	7.	SAME	LING	1 3		4,									
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER :		DATE	TIME	TPH 8015M	BTEX 802	CHLORIDE									
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Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-7439-1

Laboratory Sample Delivery Group: Rural Lea Co, NM

Client Project/Site: SPAU Injection Line

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: Joel Lowry

MAMER

Authorized for release by: 10/29/2021 9:00:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

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www.eurofinsus.com/Env

Released to Imaging: 8/2/2022 9:12:00 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Etech Environmental & Safety Solutions Project/Site: SPAU Injection Line Laboratory Job ID: 880-7439-1 SDG: Rural Lea Co, NM

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Sample Summary	30
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Definitions/Glossary

Client: Etech Environmental & Safety Solutions

Job ID: 880-7439-1 Project/Site: SPAU Injection Line SDG: Rural Lea Co, NM

Qualifiers

~	_	٠,	$\overline{}$	•
G	b	V	U	А

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Quaimer Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Ovalifian Daganintian

HPLC/IC

O......

Qualifier **Qualifier Description** U

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

MCL MDA

EDL

LOD

LOQ

EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQI Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

NEG Negative / Absent POS Positive / Present **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Job ID: 880-7439-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-7439-1

Receipt

The samples were received on 10/21/2021 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SP2 @ Surface (880-7439-3) and (890-1460-A-1-E). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-10672/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Client Sample ID: SP1 @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17 Lab Sample ID: 880-7439-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/25/21 13:53	10/27/21 03:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/25/21 13:53	10/27/21 03:04	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1
Method: 8015 NM - Diesel Range	e Ordanics (DR)	()) ((4(;)							
	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/27/21 12:19	
Analyte Total TPH	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (D	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			10/27/21 12:19	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	10/27/21 12:19 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 10/27/21 08:37	10/27/21 12:19 Analyzed 10/27/21 11:22	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/21 08:37 10/27/21 08:37	10/27/21 12:19 Analyzed 10/27/21 11:22 10/27/21 11:22	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/21 08:37 10/27/21 08:37	Analyzed 10/27/21 11:22 10/27/21 11:22 10/27/21 11:22	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared	Analyzed 10/27/21 11:22 10/27/21 11:22 10/27/21 11:22 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared 10/27/21 08:37	Analyzed 10/27/21 11:22 10/27/21 11:22 10/27/21 11:22 Analyzed 10/27/21 11:22	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared 10/27/21 08:37	Analyzed 10/27/21 11:22 10/27/21 11:22 10/27/21 11:22 Analyzed 10/27/21 11:22	Dil Fac 1 Dil Fac

Client Sample ID: SP1 @ 1'

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	•
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	•
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:25	,
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:25	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				10/25/21 13:53	10/27/21 03:25	-
1,4-Difluorobenzene (Surr)	103		70 ₋ 130				10/25/21 13:53	10/27/21 03:25	

Eurofins Xenco, Midland

Lab Sample ID: 880-7439-2

Matrix: Solid

Job ID: 880-7439-1

Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

SDG: Rural Lea Co, NM Lab Sample ID: 880-7439-2

Client Sample ID: SP1 @ 1'

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/27/21 08:37	10/27/21 12:26	1
o-Terphenyl	104		70 - 130				10/27/21 08:37	10/27/21 12:26	1
Mathadi 200 0 Aniana Ian Chur		Calubia							
Method: 300.0 - Anions, Ion Chro Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

Client Sample ID: SP2 @ Surface

104

Date Collected: 10/19/21 00:00

Date Received: 10/21/21 10:17

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/25/21 13:53	10/27/21 08:34	1
1,4-Difluorobenzene (Surr)	47	S1-	70 - 130				10/25/21 13:53	10/27/21 08:34	1
Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1
- Method: 8015 NM - Diesel Rai	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1

Eurofins Xenco, Midland

10/28/21 22:19

Lab Sample ID: 880-7439-3

Matrix: Solid

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Date Received: 10/21/21 10:17

Lab Sample ID: 880-7439-3

Lab Sample ID: 880-7439-4

Client Sample ID: SP2 @ Surface Date Collected: 10/19/21 00:00

Matrix: Solid

Matrix: Solid

Job ID: 880-7439-1

SDG: Rural Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/27/21 08:37	10/27/21 12:48	1
o-Terphenyl	109		70 - 130				10/27/21 08:37	10/27/21 12:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit Prepared Analyzed Chloride 104 4.95 10/28/21 22:26 mg/Kg

Client Sample ID: SP2 @ 1'

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/25/21 13:53	10/27/21 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/25/21 13:53	10/27/21 08:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/25/21 13:53	10/27/21 08:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Total TPH	<50.0 II	50.0	ma/Ka			10/27/21 12:19			

Method: 8015B NM	- Diesel Range Or	ganics (DRO) (GC)
MICHIOU. OUTSD MIN	- Diesel Kallye Ol	garries (Dixo) (OO)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/27/21 08:37	10/27/21 13:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/27/21 08:37	10/27/21 13:09	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/21 08:37	10/27/21 13:09	1

Surrogate	%Recovery Quali	lifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	10/27/21 08:37	10/27/21 13:09	1
o-Terphenyl	92	70 - 130	10/27/21 08:37	10/27/21 13:09	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.6	4.95	mg/Kg			10/28/21 22:33	1

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Client Sample ID: NH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17 Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Lab Sample ID: 880-7439-5

Matrix: Solid

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5

10

12

13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				10/25/21 13:53	10/27/21 09:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/25/21 13:53	10/27/21 09:20	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1
Analyte Total TPH	Result	Qualifier U	RL	MDL		D	Prepared	Analyzed	Dil Fac
				MIDL			Prepareu	Allalyzeu	טוו רמנ
		-	49.8		mg/Kg			10/27/21 12:19	1
- Method: 8015B NM - Diesel Rand	ge Organics (D		49.8		mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel Ranç Analyte	•		49.8 R L	MDL		D	Prepared	10/27/21 12:19 Analyzed	Dil Fac
	•	RO) (GC) Qualifier		MDL	Unit	<u>D</u>	Prepared 10/27/21 08:37		Dil Fac
Analyte	Result	RO) (GC) Qualifier	RL	MDL		<u>D</u>		Analyzed	
Analyte Gasoline Range Organics	Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/27/21 08:37 10/27/21 08:37	Analyzed 10/27/21 13:31 10/27/21 13:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	10/27/21 08:37	Analyzed 10/27/21 13:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8	RO) (GC) Qualifier U U Qualifier	## ## ## ## ## ## ## ## ## ## ## ## ##	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared	Analyzed 10/27/21 13:31 10/27/21 13:31 10/27/21 13:31 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/27/21 08:37 10/27/21 08:37 10/27/21 08:37	Analyzed 10/27/21 13:31 10/27/21 13:31 10/27/21 13:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	RO) (GC) Qualifier U U Qualifier	## ## ## ## ## ## ## ## ## ## ## ## ##	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared	Analyzed 10/27/21 13:31 10/27/21 13:31 10/27/21 13:31 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier S1- S1-	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared 10/27/21 08:37	Analyzed 10/27/21 13:31 10/27/21 13:31 10/27/21 13:31 Analyzed 10/27/21 13:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier S1- S1-	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	D	10/27/21 08:37 10/27/21 08:37 10/27/21 08:37 Prepared 10/27/21 08:37	Analyzed 10/27/21 13:31 10/27/21 13:31 10/27/21 13:31 Analyzed 10/27/21 13:31	Dil Fac

Client Sample ID: NH @ 1'

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				10/25/21 13:53	10/27/21 09:41	1
1,4-Difluorobenzene (Surr)	110		70 ₋ 130				10/25/21 13:53	10/27/21 09:41	1

Eurofins Xenco, Midland

Lab Sample ID: 880-7439-6

Matrix: Solid

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

SDG: Rural Lea Co, NM

Lab Sample ID: 880-7439-6

Lab Sample ID: 880-7439-7

Matrix: Solid

Job ID: 880-7439-1

Matrix: Solid

Client Sample ID: NH @ 1'

Date Collected: 10/19/21 00:00

Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/29/21 15:37	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/27/21 08:37	10/27/21 13:52	1
o-Terphenyl	97		70 - 130				10/27/21 08:37	10/27/21 13:52	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.04		mg/Kg			10/28/21 23:02	1

Client Sample ID: EH @ Surface

Date Collected: 10/19/21 00:00

Date Received: 10/21/21 10:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/25/21 13:53	10/27/21 10:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/25/21 13:53	10/27/21 10:01	1
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
raidiyto									DII Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/29/21 15:37	1
Total BTEX			0.00401		mg/Kg			10/29/21 15:37	1
Total BTEX Method: 8015 NM - Diesel Rang	ge Organics (DR		0.00401	MDL	mg/Kg Unit		Prepared	10/29/21 15:37 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte	ge Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		1
	ge Organics (DR Result <49.8	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	1
Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR Result <49.8	O) (GC) Qualifier	RL		Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1

Eurofins Xenco, Midland

(GRO)-C6-C10

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

SDG: Rural Lea Co, NM

Analyzed

10/27/21 14:14

Client Sample ID: EH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Lab Sample ID: 880-7439-7

Matrix: Solid

Dil Fac

Job ID: 880-7439-1

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC) (C	ontinued)
Analyte	Result	Qualifier	RL
Diesel Range Organics (Over	<49.8	U	49.8

Diesel Range Organics (Over <49.8 U C10-C28) Oll Range Organics (Over C28-C36) <49.8 U

49.8 %Recovery Qualifier

70 - 130

10/27/21 08:37 10/27/21 08:37 10/27/21 14:14

Prepared Analyzed Dil Fac 113 10/27/21 08:37 10/27/21 14:14 113 70 - 130 10/27/21 08:37 10/27/21 14:14

MDL Unit

mg/Kg

mg/Kg

D

Prepared

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chloride 18.3 4.98 10/28/21 23:09 mg/Kg

Client Sample ID: EH @ 1' Lab Sample ID: 880-7439-8

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
	Toluene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
	Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
	m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
	o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
	Xylenes, Total	< 0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
1										

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/25/21 13:53	10/27/21 10:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/25/21 13:53	10/27/21 10:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 10/29/21 15:37

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier Analyte RL MDI Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 10/27/21 13:36

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/27/21 08:37	10/27/21 14:35	1
o-Terphenyl	108		70 - 130	10/27/21 08:37	10/27/21 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL **MDL** Unit D Dil Fac Prepared Analyzed Chloride 5.00 246 mg/Kg 10/28/21 23:16

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

SDG: Rural Lea Co, NM

Client Sample ID: SH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17 Lab Sample ID: 880-7439-9

Matrix: Solid

Job ID: 880-7439-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				10/25/21 13:53	10/27/21 10:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/25/21 13:53	10/27/21 10:43	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/21 15:21	1
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg	— <u>-</u>		10/27/21 13:36	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/27/21 08:37	10/27/21 14:57	1
o-Terphenyl	107		70 - 130				10/27/21 08:37	10/27/21 14:57	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
mountain volume 7 mmonto, nom onn									
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SH @ 1' Lab Sample ID: 880-7439-10

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/25/21 13:53	10/27/21 11:04	1
1,4-Difluorobenzene (Surr)	111		70 ₋ 130				10/25/21 13:53	10/27/21 11:04	1

Eurofins Xenco, Midland

Matrix: Solid

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Client Sample ID: SH @ 1'

Date Collected: 10/19/21 00:00

Date Received: 10/21/21 10:17

Lab Sample ID: 880-7439-10

Matrix: Solid

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/28/21 15:21	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1
· Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				10/27/21 08:37	10/27/21 15:18	1
o-Terphenyl	92		70 - 130				10/27/21 08:37	10/27/21 15:18	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		4.98		mg/Kg			10/28/21 23:30	

Client Sample ID: WH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Lab Sample ID: 880-7439-11 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43	S1-	70 - 130				10/25/21 13:53	10/27/21 11:24	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/25/21 13:53	10/27/21 11:24	1
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total B1			70 - 130				10/25/21 13:53	10/27/21 11:24	1
Method: Total BTEX - Total B	ΓEX Calculation	Qualifier	70 - 130 RL	MDL	Unit	D	10/25/21 13:53 Prepared	10/27/21 11:24 Analyzed	1 Dil Fac
	ΓEX Calculation			MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte	Calculation Result <0.00402	U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	FEX Calculation Result <0.00402 nge Organics (DR0	U	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar	FEX Calculation Result <0.00402 nge Organics (DR0	O) (GC) Qualifier	RL		mg/Kg		Prepared	Analyzed 10/28/21 15:21	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte	rex Calculation Result <0.00402 nge Organics (DR) Result <49.9	U O) (GC) Qualifier U	RL		mg/Kg		Prepared	Analyzed 10/28/21 15:21 Analyzed	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	rex Calculation Result <0.00402 nge Organics (DR) Result <49.9 ange Organics (D	U O) (GC) Qualifier U	RL	MDL	mg/Kg		Prepared	Analyzed 10/28/21 15:21 Analyzed	1

Eurofins Xenco, Midland

(GRO)-C6-C10

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

SDG: Rural Lea Co, NM

Job ID: 880-7439-1

Client Sample ID: WH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Lab Sample ID: 880-7439-11

Lab Sample ID: 880-7439-12

Matrix: Solid

Matrix: Solid

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (C	Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:01	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/27/21 08:37	10/27/21 16:01	1
o-Terphenyl	91		70 - 130				10/27/21 08:37	10/27/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 231 5.00 mg/Kg 10/28/21 23:38

Client Sample ID: WH @ 1'

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/25/21 13:53	10/27/21 11:45	1
1,4-Difluorobenzene (Surr)	111		70 - 130				10/25/21 13:53	10/27/21 11:45	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/21 15:21	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/27/21 08:37	10/27/21 16:22	1
o-Terphenyl	101		70 - 130				10/27/21 08:37	10/27/21 16:22	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.95		mg/Kg			10/28/21 23:59	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Job ID: 880-7439-1 Project/Site: SPAU Injection Line SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-7439-1	SP1 @ Surface	104	113	
880-7439-2	SP1 @ 1'	98	103	
880-7439-3	SP2 @ Surface	92	47 S1-	
880-7439-4	SP2 @ 1'	100	99	
880-7439-5	NH @ Surface	89	98	
880-7439-6	NH @ 1'	103	110	
880-7439-7	EH @ Surface	100	113	
880-7439-8	EH @ 1'	104	113	
880-7439-9	SH @ Surface	90	107	
880-7439-10	SH @ 1'	99	111	
880-7439-11	WH @ Surface	43 S1-	112	
880-7439-12	WH @ 1'	95	111	
890-1460-A-1-C MS	Matrix Spike	90	110	
890-1460-A-1-D MSD	Matrix Spike Duplicate	101	101	
LCS 880-10431/1-A	Lab Control Sample	92	106	
LCSD 880-10431/2-A	Lab Control Sample Dup	91	106	
MB 880-10013/5-A	Method Blank	101	103	
MB 880-10431/5-A	Method Blank	112	111	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-7439-1	SP1 @ Surface	115	115	
880-7439-1 MS	SP1 @ Surface	89	85	
880-7439-1 MSD	SP1 @ Surface	92	89	
880-7439-2	SP1 @ 1'	98	104	
880-7439-3	SP2 @ Surface	105	109	
880-7439-4	SP2 @ 1'	87	92	
880-7439-5	NH @ Surface	45 S1-	45 S1-	
880-7439-6	NH @ 1'	96	97	
880-7439-7	EH @ Surface	113	113	
880-7439-8	EH @ 1'	109	108	
880-7439-9	SH @ Surface	111	107	
880-7439-10	SH @ 1'	89	92	
880-7439-11	WH @ Surface	90	91	
880-7439-12	WH @ 1'	96	101	
LCS 880-10672/2-A	Lab Control Sample	82	83	
LCSD 880-10672/3-A	Lab Control Sample Dup	74	76	
MB 880-10672/1-A	Method Blank	122	131 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions

Job ID: 880-7439-1 Project/Site: SPAU Injection Line SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10013/5-A

Analysis Batch: 10595

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10013

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1

0.00400

mg/Kg

MB MB

MR MR

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/20/21 14:	34 10/26/21 12:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/20/21 14:	34 10/26/21 12:51	1

Lab Sample ID: MB 880-10431/5-A

Matrix: Solid

Xylenes, Total

Client Sample ID: Method Blank Prep Type: Total/NA

10/26/21 12:51

10/20/21 14:34

Prep Batch: 10431

Analysis Batch: 10595

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac mg/Kg Benzene <0.00200 U 0.00200 10/25/21 13:53 10/26/21 23:55 Toluene <0.00200 U 0.00200 mg/Kg 10/25/21 13:53 10/26/21 23:55 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/25/21 13:53 10/26/21 23:55 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 10/25/21 13:53 10/26/21 23:55 <0.00200 U o-Xylene 0.00200 mg/Kg 10/25/21 13:53 10/26/21 23:55 Xylenes, Total <0.00400 U 0.00400 mg/Kg 10/25/21 13:53 10/26/21 23:55

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/25/21 1	13:53	10/26/21 23:55	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/25/21 1	13:53	10/26/21 23:55	1

Lab Sample ID: LCS 880-10431/1-A

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 10431

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	
Toluene	0.100	0.07776		mg/Kg		78	70 - 130	
Ethylbenzene	0.100	0.07993		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1507		mg/Kg		75	70 - 130	
o-Xylene	0.100	0.07868		mg/Kg		79	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-10431/2-A

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10431

	Бріке	LCSD LCSD				%Rec.		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09955	mg/Kg		100	70 - 130	2	35

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-10431/2-A **Matrix: Solid**

Analysis Batch: 10595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 10431

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.07700		mg/Kg		77	70 - 130	1	35
Ethylbenzene	0.100	0.07854		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1482		mg/Kg		74	70 - 130	2	35
o-Xylene	0.100	0.07709		mg/Kg		77	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 890-1460-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 10595

Prep Type: Total/NA

Prep Batch: 10431

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08277		mg/Kg		82	70 - 130	
Toluene	<0.00200	U F1	0.100	0.03668	F1	mg/Kg		37	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.04003	F1	mg/Kg		40	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.07580	F1	mg/Kg		38	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.04952	F1	mg/Kg		49	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-1460-A-1-D MSD

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10431

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07981		mg/Kg		80	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.04108	F1	mg/Kg		41	70 - 130	11	35
Ethylbenzene	<0.00200	U F1	0.100	0.04430	F1	mg/Kg		44	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08599	F1	mg/Kg		43	70 - 130	13	35
o-Xylene	<0.00200	U F1	0.100	0.05652	F1	mg/Kg		56	70 - 130	13	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10672/1-A

Matrix: Solid

Analysis Batch: 10667

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 10672

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 10/27/21 08:37 10/27/21 10:19 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-10672/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-10672/2-A

Matrix: Solid

Analysis Batch: 10667

Analysis Batch: 10667

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 10672

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 10:19	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 10:19	1
	MB	MR							

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	122		70 - 130	10/27/21 08:37	10/27/21 10:19	1
l	o-Terphenyl	131	S1+	70 - 130	10/27/21 08:37	10/27/21 10:19	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10672

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 845.4 85 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1037 104 mg/Kg 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-10672/3-A

Matrix: Solid

Analysis Batch: 10667

Client Sample ID: Lab Control Sample Du

Prep Type: Total/NA

Prep Batch: 10672

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	730.4		mg/Kg		73	70 - 130	15	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	975.1		mg/Kg		98	70 - 130	6	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-7439-1 MS

Matrix: Solid

Analysis Batch: 10667

Client Sample ID: SP1 @ Surface

Prep Type: Total/NA

Prep Batch: 10672

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	757.9		mg/Kg		74	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	804.9		mg/Kg		81	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	85		70 - 130

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-7439-1 MSD

Matrix: Solid Analysis Batch: 10667 Client Sample ID: SP1 @ Surface

Client Sample ID: Lab Control Sample Dup

Client Sample ID: SP1 @ Surface

Client Sample ID: SP1 @ Surface

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 10672

		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics	<49.9	U	1000	753.3		mg/Kg		73	70 - 130	1	20
ı	(GRO)-C6-C10											
	Diesel Range Organics (Over	<49.9	U	1000	861.0		mg/Kg		86	70 - 130	7	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10655/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 10796

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/28/21 21:36	1

Lab Sample ID: LCS 880-10655/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 10796

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	255.1		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-10655/3-A

Matrix: Solid

Analysis Batch: 10796

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	258.2		ma/Ka		103	90 _ 110		20	

Lab Sample ID: 880-7439-1 MS

Matrix: Solid

Analysis Batch: 10796

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	270		253	517.6		mg/Kg		98	90 - 110	

Lab Sample ID: 880-7439-1 MSD

Matrix: Solid

Analysis Batch: 10796											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	270		253	520.8		ma/Ka		103	90 110		20

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1

SDG: Rural Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

231

Lab Sample ID: 880-7439-11 MS

Matrix: Solid

Analysis Batch: 10796

Analyte

Chloride

Client Sample ID: WH @ Surface
Prep Type: Soluble

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Result Qualifier Unit %Rec 250 470.3 mg/Kg 90 - 110

Lab Sample ID: 880-7439-11 MSD Client Sample ID: WH @ Surface **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 10796

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	231		250	472.4		mg/Kg		97	90 - 110	0	20	

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Prep Batch: 10013

GC VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10013/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	5035	
880-7439-2	SP1 @ 1'	Total/NA	Solid	5035	
880-7439-3	SP2 @ Surface	Total/NA	Solid	5035	
880-7439-4	SP2 @ 1'	Total/NA	Solid	5035	
880-7439-5	NH @ Surface	Total/NA	Solid	5035	
880-7439-6	NH @ 1'	Total/NA	Solid	5035	
880-7439-7	EH @ Surface	Total/NA	Solid	5035	
880-7439-8	EH @ 1'	Total/NA	Solid	5035	
880-7439-9	SH @ Surface	Total/NA	Solid	5035	
880-7439-10	SH @ 1'	Total/NA	Solid	5035	
880-7439-11	WH @ Surface	Total/NA	Solid	5035	
880-7439-12	WH @ 1'	Total/NA	Solid	5035	
MB 880-10431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1460-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1460-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 10595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8021B	10431
880-7439-2	SP1 @ 1'	Total/NA	Solid	8021B	10431
880-7439-3	SP2 @ Surface	Total/NA	Solid	8021B	10431
880-7439-4	SP2 @ 1'	Total/NA	Solid	8021B	10431
880-7439-5	NH @ Surface	Total/NA	Solid	8021B	10431
880-7439-6	NH @ 1'	Total/NA	Solid	8021B	10431
880-7439-7	EH @ Surface	Total/NA	Solid	8021B	10431
880-7439-8	EH @ 1'	Total/NA	Solid	8021B	10431
880-7439-9	SH @ Surface	Total/NA	Solid	8021B	10431
880-7439-10	SH @ 1'	Total/NA	Solid	8021B	10431
880-7439-11	WH @ Surface	Total/NA	Solid	8021B	10431
880-7439-12	WH @ 1'	Total/NA	Solid	8021B	10431
MB 880-10013/5-A	Method Blank	Total/NA	Solid	8021B	10013
MB 880-10431/5-A	Method Blank	Total/NA	Solid	8021B	10431
LCS 880-10431/1-A	Lab Control Sample	Total/NA	Solid	8021B	10431
LCSD 880-10431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10431
890-1460-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	10431
890-1460-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10431

Analysis Batch: 10854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep E	3atch
880-7439-9	SH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-10	SH @ 1'	Total/NA	Solid	Total BTEX	
880-7439-11	WH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-12	WH @ 1'	Total/NA	Solid	Total BTEX	

Client: Etech Environmental & Safety Solutions Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

GC VOA

Analysis Batch: 10986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	Total BTEX	
880-7439-2	SP1 @ 1'	Total/NA	Solid	Total BTEX	
880-7439-3	SP2 @ Surface	Total/NA	Solid	Total BTEX	
880-7439-4	SP2 @ 1'	Total/NA	Solid	Total BTEX	
880-7439-5	NH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-6	NH @ 1'	Total/NA	Solid	Total BTEX	
880-7439-7	EH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-8	EH @ 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 10667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-5	NH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-6	NH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-7	EH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-8	EH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-9	SH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-10	SH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-11	WH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-12	WH @ 1'	Total/NA	Solid	8015B NM	10672
MB 880-10672/1-A	Method Blank	Total/NA	Solid	8015B NM	10672
LCS 880-10672/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10672
LCSD 880-10672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10672
880-7439-1 MS	SP1 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-1 MSD	SP1 @ Surface	Total/NA	Solid	8015B NM	10672

Prep Batch: 10672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-5	NH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-6	NH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-7	EH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-8	EH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-9	SH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-10	SH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-11	WH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-12	WH @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-10672/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10672/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7439-1 MS	SP1 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-1 MSD	SP1 @ Surface	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

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Client: Etech Environmental & Safety Solutions

Job ID: 880-7439-1 Project/Site: SPAU Injection Line SDG: Rural Lea Co, NM

GC Semi VOA

Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015 NM	
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015 NM	
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015 NM	
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015 NM	
880-7439-5	NH @ Surface	Total/NA	Solid	8015 NM	
880-7439-6	NH @ 1'	Total/NA	Solid	8015 NM	
880-7439-7	EH @ Surface	Total/NA	Solid	8015 NM	
880-7439-8	EH @ 1'	Total/NA	Solid	8015 NM	
880-7439-9	SH @ Surface	Total/NA	Solid	8015 NM	
880-7439-10	SH @ 1'	Total/NA	Solid	8015 NM	
880-7439-11	WH @ Surface	Total/NA	Solid	8015 NM	
880-7439-12	WH @ 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-2	SP1 @ 1'	Soluble	Solid	DI Leach	
880-7439-3	SP2 @ Surface	Soluble	Solid	DI Leach	
880-7439-4	SP2 @ 1'	Soluble	Solid	DI Leach	
880-7439-5	NH @ Surface	Soluble	Solid	DI Leach	
880-7439-6	NH @ 1'	Soluble	Solid	DI Leach	
880-7439-7	EH @ Surface	Soluble	Solid	DI Leach	
880-7439-8	EH @ 1'	Soluble	Solid	DI Leach	
880-7439-9	SH @ Surface	Soluble	Solid	DI Leach	
880-7439-10	SH @ 1'	Soluble	Solid	DI Leach	
880-7439-11	WH @ Surface	Soluble	Solid	DI Leach	
880-7439-12	WH @ 1'	Soluble	Solid	DI Leach	
MB 880-10655/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10655/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10655/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7439-1 MS	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-1 MSD	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-11 MS	WH @ Surface	Soluble	Solid	DI Leach	
880-7439-11 MSD	WH @ Surface	Soluble	Solid	DI Leach	

Analysis Batch: 10796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-2	SP1 @ 1'	Soluble	Solid	300.0	10655
880-7439-3	SP2 @ Surface	Soluble	Solid	300.0	10655
880-7439-4	SP2 @ 1'	Soluble	Solid	300.0	10655
880-7439-5	NH @ Surface	Soluble	Solid	300.0	10655
880-7439-6	NH @ 1'	Soluble	Solid	300.0	10655
880-7439-7	EH @ Surface	Soluble	Solid	300.0	10655
880-7439-8	EH @ 1'	Soluble	Solid	300.0	10655
880-7439-9	SH @ Surface	Soluble	Solid	300.0	10655
880-7439-10	SH @ 1'	Soluble	Solid	300.0	10655
880-7439-11	WH @ Surface	Soluble	Solid	300.0	10655
880-7439-12	WH @ 1'	Soluble	Solid	300.0	10655

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Client: Etech Environmental & Safety Solutions Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 10796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10655/1-A	Method Blank	Soluble	Solid	300.0	10655
LCS 880-10655/2-A	Lab Control Sample	Soluble	Solid	300.0	10655
LCSD 880-10655/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10655
880-7439-1 MS	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-1 MSD	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-11 MS	WH @ Surface	Soluble	Solid	300.0	10655
880-7439-11 MSD	WH @ Surface	Soluble	Solid	300.0	10655

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Lab Sample ID: 880-7439-1

Job ID: 880-7439-1

SDG: Rural Lea Co, NM

Client Sample ID: SP1 @ Surface Date Collected: 10/19/21 00:00 Matrix: Solid Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 03:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 11:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 21:57	CH	XEN MID

Client Sample ID: SP1 @ 1' Lab Sample ID: 880-7439-2

Date Collected: 10/19/21 00:00 Matrix: Solid

Date Received: 10/21/21 10:17

Released to Imaging: 8/2/2022 9:12:00 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 03:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 12:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:19	CH	XEN MID

Client Sample ID: SP2 @ Surface Lab Sample ID: 880-7439-3

Date Collected: 10/19/21 00:00 **Matrix: Solid** Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 08:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:26	CH	XEN MID

Client Sample ID: SP2 @ 1' Lab Sample ID: 880-7439-4

Date Collected: 10/19/21 00:00 **Matrix: Solid** Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 08:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Client Sample ID: SP2 @ 1'

Lab Sample ID: 880-7439-4

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Matrix: Solid

Job ID: 880-7439-1

SDG: Rural Lea Co, NM

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:33	CH	XEN MID

Lab Sample ID: 880-7439-5

Date Collected: 10/19/21 00:00

Client Sample ID: NH @ Surface

Date Received: 10/21/21 10:17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 09:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:40	CH	XEN MID

Lab Sample ID: 880-7439-6

Matrix: Solid

Client Sample ID: NH @ 1' Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 09:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:02	CH	XEN MID

Client Sample ID: EH @ Surface

Lab Sample ID: 880-7439-7

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	10672 10667	10/27/21 08:37 10/27/21 14:14	DM AJ	XEN MID XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Date Received: 10/21/21 10:17

SDG: Rural Lea Co, NM

Lab Sample ID: 880-7439-7

Client Sample ID: EH @ Surface Date Collected: 10/19/21 00:00

Matrix: Solid

Job ID: 880-7439-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:09	CH	XEN MID

Client Sample ID: EH @ 1' Lab Sample ID: 880-7439-8

Date Collected: 10/19/21 00:00 **Matrix: Solid**

Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:16	CH	XEN MID

Client Sample ID: SH @ Surface Lab Sample ID: 880-7439-9

Date Collected: 10/19/21 00:00 **Matrix: Solid** Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:23	CH	XEN MID

Client Sample ID: SH @ 1' Lab Sample ID: 880-7439-10

Date Collected: 10/19/21 00:00 **Matrix: Solid** Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:30	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Lab Sample ID: 880-7439-11

Client Sample ID: WH @ Surface

Date Collected: 10/19/21 00:00 Date Received: 10/21/21 10:17

Matrix: Solid

Job ID: 880-7439-1

SDG: Rural Lea Co, NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:38	CH	XEN MID

Lab Sample ID: 880-7439-12

Client Sample ID: WH @ 1'

Date Collected: 10/19/21 00:00 Matrix: Solid

Date Received: 10/21/21 10:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:59	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 880-7439-1 Project/Site: SPAU Injection Line SDG: Rural Lea Co, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pre	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y	
the agency does not of	. ,	it the laboratory is not certifi	ed by the governing additionty. This list the	ay include analytes for	
,	. ,	Matrix	Analyte	ay include analytes for t	
the agency does not of	er certification.	•	, , ,		

Method Summary

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1 SDG: Rural Lea Co, NM

Labarratarra
SDG: Rurai Lea Co, Nivi

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

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Sample Summary

Client: Etech Environmental & Safety Solutions

Project/Site: SPAU Injection Line

Job ID: 880-7439-1

300 ID. 000-7 4 33-1
SDG: Rural Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-7439-1	SP1 @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-2	SP1 @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-3	SP2 @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-4	SP2 @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-5	NH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-6	NH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-7	EH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-8	EH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-9	SH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-10	SH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-11	WH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-12	WH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'

Total 200.7 / 6010 200 8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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 Craslbad NM (432) 704-5



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10/29/2021

Phoenix,AZ (480) 355-	0900 Atlanta GA (77	70) 449	-8800	Tampa,	FL (813)	620-200	0 West	Palm Be	each Fl	_ (561)	689	000-7	409 CI	iaiii Oi	Custo	oay	of 3
Project Manager: Joel LOWN	Bill to: (if diff	1	,	عمد						Ìĺ		HILLING HILLIANS	×1135×101911111	V	Vork O	rder C	omments
company Name: ETECH ENVIRONMENTAL	Company Na	ame:)	7					7 [Pro	aram	UST/P				nfields RRC Superfund
Address: 2617 Marland	Addr	ess:								7			f Proje				
City, State ZIP: HODDS, NM 38240	City, State	ZIP:									Rep	orting	Level I	ı 🏻 Le	evel III	ПРЅТ	/UST TRRP Level IV
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Project Number: 150 18 Routi		Pres. Code				T	T	T						1	T :	I	MeOH Me
Project Location Rural Lea Co, NM Rush								$\neg \dagger$						***************************************	1		None NO
Sampler's Name: Might Raming Due I	Date	- 1	1							1	- [1	HNO3 HN
PO#: Quote #:																ļ	H2S04 H2
SAMPLE RECEIPT Temp Blank: Yes No Wet Ice:	Yes No	- 1	1								1						
Temperature (°C): 2-6-7 Thermomete		ers.							- [1						1	HCL HL
Received Intact: Yes No K		ğ.	2				- 1				ļ					1	NaOH Na
Cooler Custody Seals: Yes No N/A Correction Factor:	TAY	Containers	B						1	Ĭ							Zn Acetate+ NaOH Zn
Sample Custody Seals: Yes No N/A Total Containers:	:	₽ \	1	E	td												TAT starts the day recevied by the lab if received by 4 00pm
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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
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TCLP/SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

TENEX

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 Tl Sn U V Zn

Revised Date 022619 Rev 2019.1

1631 / 245 1 / 7470 / 7471 Hg

Released to Imaging: 8/2/2022 9:12:00

Received by OCD: 7/27/2022 7:59:27 AM

Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300 Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

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Total 200.7 / 601		200.8 / 60		88	RCRA 13PP	M Texa	as 11	Al Sb	As B	a Be	B Cd	l Ca C	r Co	Cu F	e Pb M	q N	∕ln M	o Ni	K Se	Aa '	1 001	Na Sr	TI Sn U	V Zn	
Circle Method(s) a	and Me	tal(s) to	be ana	lyzed	TCLP / SI	PLP 6010	8RC	CRA S	b As	Ва Ве	Cd	Cr Co	Cu P	b Mn	Mo Ni	Se	Ag T	ΙU					/7470 /7		
Notice: Signature of this doc	iment and	relinguishmer	nt of sampl	es constitutes a v	alid purchase ord	er from clien	t compan	y to Euro	ins Xenco	o, its affili	ates and	d subcontr	actors, I	t assigns	standard te	rms a	nd cond	itions							
of service. Eurofins Xenco w of Eurofins Xenco. A minimu	II DE Hable (orny for the co	ozr or zamb	ies and shall not	assume any respo	nsibility for a	ny losses	or expend	es incurr	ed hy the	a cliant it	feiich lacc	ac ara di	in to circ	umetaneae b		d the ee	merat	ted.						
Relinquished by: (Signature) Received by: (Signature)					T	Date/Time Relinquished by (Signat							te/Time												
My Johnsthan Co		ſχ.			0/19		2 gomatian			LOX VIBRILL				K											
			***************************************		ļ	4 0			1																

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-7439-1

SDG Number: Rural Lea Co, NM

List Source: Eurofins Xenco, Midland

Login Number: 7439 List Number: 1 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Xenco, Midland

Released to Imaging: 8/2/2022 9:12:00 AM



January 07, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Tamara Oldaker

Sample Received By:

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 01/05/2022
 Sampling Date:
 01/04/2022

 Reported:
 01/07/2022
 Sampling Type:
 Soil

Project Name: LEGACY SPAU INJECTION LINE Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: LEGACY RESERVES -

Sample ID: SSW #1 (H220034-01)

DTEV 0021D

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	01/06/2022	ND	2.07	104	2.00	6.26	
Toluene*	<0.050	0.050	01/06/2022	ND	2.01	101	2.00	6.16	
Ethylbenzene*	<0.050	0.050	01/06/2022	ND	1.96	97.9	2.00	6.62	
Total Xylenes*	<0.150	0.150	01/06/2022	ND	5.97	99.5	6.00	6.60	
Total BTEX	<0.300	0.300	01/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/06/2022	ND	400	100	400	3.92	
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	01/06/2022	ND	210	105	200	0.0128	
DRO >C10-C28*	<10.0	10.0	01/06/2022	ND	216	108	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/06/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.0	% 59.5-14	2						

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Mile Sough



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/05/2022 Sampling Date: 01/04/2022

Reported: 01/07/2022 Sampling Type: Soil

Project Name: LEGACY SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: LEGACY RESERVES -

Sample ID: FL #1 @ 3' (H220034-02)

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	01/06/2022	ND	2.07	104	2.00	6.26	
Toluene*	<0.050	0.050	01/06/2022	ND	2.01	101	2.00	6.16	
Ethylbenzene*	<0.050	0.050	01/06/2022	ND	1.96	97.9	2.00	6.62	
Total Xylenes*	<0.150	0.150	01/06/2022	ND	5.97	99.5	6.00	6.60	
Total BTEX	<0.300	0.300	01/06/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/06/2022	ND	400	100	400	3.92	
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	01/06/2022	ND	210	105	200	0.0128	
DRO >C10-C28*	<10.0	10.0	01/06/2022	ND	216	108	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/06/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.4	% 59.5-14	2						

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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.

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01/04/2022

Tamara Oldaker

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/05/2022 Reported: 01/07/2022

01/07/2022 Sampling Type: Soil
LEGACY SPAU INJECTION LINE Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: LEGACY SPAU INJECT
Project Number: NONE GIVEN

Project Location: LEGACY RESERVES -

Sample ID: TT - 1 20' (H220034-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 3 4' (H220034-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 4 7' (H220034-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 1 21' (H220034-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/06/2022	ND	400	100	400	3.92	

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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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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393 2336 EAX (575) 393 2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

-3

Released to Imaging: 8/2/2022 9:12:00 AM

(575) 393-2326 FAX (575) 393-2476		
Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Jod Low()	P.O. #:	
Address: P.O. Box 301	Company: Legac	y
City: Lovington 40665 State: NM Zip: 88260	Attn:	
Phone #: (575) 396-2378	Address:	
Project #: Project Owner:	City:	
Project Name: SPAU injection Line	State: Zip:	Chloride TPH (8015M) 3TEX (8021B)
Project Location:	Phone #:	Chloride H (8015
Sampler Name: Awon RIOS	Fax #:	BTEX Chic
R LAB USE ONLY MATRI	PRESERV. SAMPLING	
(C)OMP ERS ATER ER		
(C)(
Lab I.D. Sample I.D. Sample I.D.	3.5 S.A.S.E.	
# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	ME
		XXX
(\$ 55w # 1. C x X X Z FL# 1@3' C X X	× 114/22 × 114/22	Ŷ X X
7211 (6) 3		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in c analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waiwed unless made in wri	ing and received by Cardinal within 30 days after compl	etion of the applicable
service. In no event shall Cardinat be liable for incidental or consequental damages, including without limitation, business interruj affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether sucl	claim is based upon any of the above stated reasons of	otherwise.
Relinquished By: Date:		ne Result:
Aaron Rics This open	REN	BARKS:
Relinquished By: Date: 1-5-21 Received By:	01111	
Time / Lauran	a Maddolla	The state of the s
		ase email results to pm@etechenv.com.
-1.6c) (-0.3c) Cool Int	ect (Initials)	
Sampler - UPS - Bus - Other: -8.1c #113 No	No TO-	

FORM-006 Revision 1.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

2-3

Company Name	Etech Environmental & Safety Solu	STREET, SQUARE, SQUARE,	Inc			PII	L TO					ANALYSIS REQUEST
Project Manage		1110113	, 1110		P	0. #:	LIU				П	ANALISIS REQUEST
	7 West Marland				-							
City: Hobbs	State: NM	7in	. 88	240		ompany Leg	acy rese	erves				
	5) 264-9884 Fax #:	Zip	. 00	240		ttn:						
	The same of the sa				Address: ,							
Project #:	Project Owner	er:				ty:				9	B B	
Project Name:	SPAU injection Line				Sta	ate: 2	Zip:		ide	TPH (8015M)	021	
Project Location					Phone #:				Chloride	(80	(8)	
Sampler Name: Agron Rius					Fax #:				င်	H	TPH (8015M)	
Lab I.D. #220034	Sample I.D.		# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:		DATE	TIME	.,	L	.B	
	TT-1 20'	8	X	×		×	1/4/22		X	_		
4	TT-3 4'	G	X	*	-	X.			X,			
5	TT-4 7'	6	1			K	V		X			
		+										· .
		+	-			-	-					
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PLEASE NOTE: Liability ar	nd Damages. Cardinal's liability and client's exclusive remedy for	any clain	n arisir	ng whether based in contract of	or lor	rt, shall be limited to	the amount paid	by the client for	the			
analyses. All claims includi	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin	deeme	d waive	ed unless made in writing and	recei	eived by Cardinal with	nin 30 days after	completion of the	e applicat	ile		
affiliates or successors arisi Relinquished B	ng out of or related to the performance of services hereunder by			dless of whether such claim is ved By:	s bas	sed upon any of the a	above stated rea	Phone Res		☐ Ye	s 🗆 I	No Add'l Phone #:
Aaron Ric	114176	-						Fax Result REMARKS	t:	□ Ye		No Add'I Fax #:
Relinquished B		Re	ceiv	ed By:	,	1111	/					
	Time; 25		1	awara u	1	Wast	SR	Please er	mail c	ору с	of COC	C and results to pm@etechenv.com.
Delivered By	(Circle One) - 7.6 (C-6	5.5	00	Sample Condition	on	CHECKE (Initia						
cample) - UPS	- Bus - Other: (-8./c	#1	13	Yes Yes		AO	-					

FORM-006 Revision 1.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

3-3

Company Name: Etech Environmental & Safety Solution	BILL 7	BILL TO ANALYSIS REQUEST								
Project Manager: Joel (owl)		P.O. #:								
Address: 2617 West Marland		Company Legacy	leserves		*					
City: Hobbs State: NM	Zip: 88240	Attn:								
Phone #: (575) 264-9884 Fax #:		Address:								
Project #: Project Owner:		City:								
Project Name: SPAV injection Line		State: Zip:	e	5M	21B					
Project Location:		Phone #:	Chloride	TPH (8015M)	BTEX (8021B)					
Sampler Name: Arron Ries		Fax #:	AND DESCRIPTION OF PERSONS ASSESSMENT OF PER	H	Ĕ E					
FOR LAB USE ONLY	MAT	PRESERV. SA	IPLING	-	in in					
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	re TIME							
H220034 6 TT-1 21'	2 x x	1 1 4	THE RESIDENCE OF THE PARTY OF T							
9 11-121										
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PLEASE NOTE: Liebility and Damages. Cardinal's liability and client's exclusive remedy for an analyses. All claims including those for negligence and any other cause whatsoever shall be de service. In no event shall Cardinal be liable for incidental or consequental damages, including to	erned waived unless made in without limitation, business inte	riting and received by Cardinal within 30 di aptions, loss of use, or loss of profits incur	s after completion of the applic d by client, its subsidiaries,	icable						
affiliates or successors arising out of or related to the performance of services hereunder by Cal Relinquished By: Pate: Time: 5 0000	Received By:	th claim is based upon any of the above si	Phone Result: Fax Result: REMARKS:	☐ Yes						
Relinquished By: Date: 1-5-22 Time: 25	Received By:	n Alda Ha	Please email	I copy of	f COC and results t	to pm@etechenv.com.				
Delivered By: (Circle One) _ 7.6 0 C-0	5° Sample Cool		- I caso onium	50,00		3				
Samples - UPS - Bus - Other:	#1/3 Tes	Yes VO								

FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accredited certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: NONE GIVEN
Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-3	H220034-01	Soil	04-Jan-22 00:00	05-Jan-22 11:25
FL #1 @ 3'	H220034-02	Soil	04-Jan-22 00:00	05-Jan-22 11:25

03/07/22 - Client revised the sample ID on -01. This is the revised report and will replace the one sent on 01/10/22.

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: NONE GIVEN Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

SW-3 H220034-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	al Laborat	ories								
Inorganic Compounds													
Chloride	16.0		16.0	mg/kg	4	2010516	GM	06-Jan-22	4500-Cl-B				
Volatile Organic Compounds by	y EPA Method	8021											
Benzene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010514	MS/	06-Jan-22	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	2010514	MS/	06-Jan-22	8021B				
Surrogate: 4-Bromofluorobenzene (PID)			96.3 %	69.9	-140	2010514	MS/	06-Jan-22	8021B				
Petroleum Hydrocarbons by GO	C FID												
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B				
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B				
Surrogate: 1-Chlorooctane			87.1 %	66.9	-136	2010605	MS	06-Jan-22	8015B				
Surrogate: 1-Chlorooctadecane			89.0 %	59.5	-142	2010605	MS	06-Jan-22	8015B				

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: NONE GIVEN

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

FL #1 @ 3' H220034-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	2010516	GM	06-Jan-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		96.2 %	69.9	-140	2010514	MS/	06-Jan-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctane			87.1 %	66.9	-136	2010605	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			90.4 %	59.5	-142	2010605	MS	06-Jan-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: NONE GIVEN Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010516 - 1:4 DI Water										
Blank (2010516-BLK1)				Prepared &	Analyzed:	05-Jan-22				
Chloride	ND	16.0	mg/kg							
LCS (2010516-BS1)				Prepared &	Analyzed:	05-Jan-22				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2010516-BSD1)				Prepared &	z Analyzed:	05-Jan-22				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

o-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

104

106

954

85.2-111

86.2-113

69.9-140

6.41

6.60

14.1

13.4

Project Number: NONE GIVEN

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

2.07

6.38

0.0477

0.050

0.150

mg/kg

mg/kg

mg/kg

2.00

6.00

0.0500

Blank (2010514-BLK1)				Prepared & Anal	yzed: 05-Jan-22				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	97.2	69.9-140			
LCS (2010514-BS1)				Prepared & Anal	yzed: 05-Jan-22				
Benzene	2.07	0.050	mg/kg	2.00	104	85.1-114			
Toluene	2.01	0.050	mg/kg	2.00	101	88.6-116			
Ethylbenzene	1.96	0.050	mg/kg	2.00	97.9	84.4-115			
m,p-Xylene	4.03	0.100	mg/kg	4.00	101	85.5-116			
o-Xylene	1.94	0.050	mg/kg	2.00	97.1	85.2-111			
Total Xylenes	5.97	0.150	mg/kg	6.00	99.5	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0475		mg/kg	0.0500	94.9	69.9-140			
LCS Dup (2010514-BSD1)				Prepared & Anal	yzed: 05-Jan-22				
Benzene	2.21	0.050	mg/kg	2.00	110	85.1-114	6.26	12.6	
Toluene	2.14	0.050	mg/kg	2.00	107	88.6-116	6.16	13.3	
Ethylbenzene	2.09	0.050	mg/kg	2.00	105	84.4-115	6.62	13.9	
m,p-Xylene	4.31	0.100	mg/kg	4.00	108	85.5-116	6.70	13.6	

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Surrogate: 1-Chlorooctadecane

Analyte

Project: SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

113

59.5-142

Project Number: NONE GIVEN

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:13

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

56.3

Blank (2010605-BLK1)				Prepared & Anal	yzed: 06-Jan-22				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0	99.8	66.9-136			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0	106	59.5-142			
LCS (2010605-BS1)				Prepared & Anal	yzed: 06-Jan-22				
GRO C6-C10	210	10.0	mg/kg	200	105	81.6-129			
DRO >C10-C28	216	10.0	mg/kg	200	108	83-129			
Total TPH C6-C28	426	10.0	mg/kg	400	106	84.5-127			
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0	109	66.9-136			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0	113	59.5-142			
LCS Dup (2010605-BSD1)				Prepared & Anal	yzed: 06-Jan-22				
GRO C6-C10	210	10.0	mg/kg	200	105	81.6-129	0.0128	21.4	
DRO >C10-C28	213	10.0	mg/kg	200	107	83-129	1.16	17.9	
Total TPH C6-C28	423	10.0	mg/kg	400	106	84.5-127	0.577	17.6	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0	110	66.9-136			

mg/kg

50.0

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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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ARDINA

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 EAX (575) 393-2476

1-3

Page 9 of 11

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO			ANAL	YSIS REQUEST	
Project Manager: Jod Lowry	P.O. #:					
Address: P.O. Box 301	Company:	Legacy				
City: Lovington Hobbs State: NM Zip: 88260	Attn:					
Phone #: (575) 396-2378	Address:					
Project #: Project Owner:	City:					
Project Name: SPAU injection Line	State: Zip:	9	5M)	218		
Project Location:	Phone #:	Chloride	TPH (8015M)	(8021		
Sampler Name: Aaron RibS	Fax #:	Ch	H	ă I		
R LAB USE ONLY ATERS ATERS	X.	PLING	1	a a		
	WASTEWATER SOIL OIL SLUDGE OTHER: CE/COOL OTHER:					
1 2 55w # 1. 5w-3 Cx	X X 114	2 X	X	X		
2 FL# (@3' CX	x x 114	2 X	X	X		
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Relinquished By: Date: Received		Phone Result:	☐ Yes☐ Yes☐ T		Phone #: Fax #:	2/7/22
Aoron Rics Relinquished By: Date: 1-5-21 Time: 7-5-21	omara Make			o pm@etechen	Fax#:	ch
21.00) (-0.30)	Sample Condition CHECKED BY: Cool Intact (Initials)	I sease eniali	results t	o princetectieni	w.com.	
Sampler - UPS - Bus - Other: (-8.1c #113	Yes Yes Vo					

FORM-006 Revision 1.0

Received by OCD: 7/27/2022 7:59:27 AM

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

age 67 of 18 ARL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

2-3

Company Name: Etech Environmental & Safety So	utions	, Inc	C.	BI	LL TO		·			ANALYSIS REQUEST
Project Manager: Joel LowN				P.O. #:						
Address: 2617 West Marland				Company Le	gacy Res	erves				
City: Hobbs State: NM	Zip	: 88	240	Attn:	/ /					
Phone #: (575) 264-9884 Fax #:				Address:						
Project #: Project Own	er:			City:						
Project Name: SPAU injection Line				State:	Zip:		9	(MS	18	
Project Location:				Phone #:			rig	301	BTEX (8021B)	
Sampler Name: Agron Rius				Fax #:			Chloride	TPH (8015M)	×	
FOR LAB USE ONLY	T	Т	MATRIX	PRESERV.	SAMPL	ING	1 ~	4	BTB	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:						
4220034	(6))O #	GRO WAS SOIL OIL SLUE	ACIE ICE OTH	DATE	TIME				
3 77-1 20'	9	×	×	×	14/22		X			
4 17-3 41	G	X	*	X.	-		V			
5 17-4 7'	6	1	X	K	V		X			
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analyses. All claims including those for negligence and any other cause whatsoever shall service. In no event shall Cardinal be liable for incidental or consequental damages, inclu-	e deeme	d waive	ed unless made in writing an	d received by Cardinal v	vithin 30 days after	r completion of th	e applicat	ble		
affiliates or successors arising out of or related to the performance of services hereunder to Relinquished By: Date: {	y Cardina	i, regar					ie.	☐ Ye	s 🗆 No	o Add'l Phone #:
Aaren Riss Time:	-		vod by.			Fax Resul	t:	□ Ye		
Relinquished By: Date: 22	Re	eceiv	ved By:	nnn.	,					
Time:		1	aluara L	Mah	Ser	Please e	mail d	copy o	of COC a	and results to pm@etechenv.com.
Delivered By: (Circle One) -7.62 C-	0.5	C	Sample Condit Cool Intact		ED BY:			F) *		F
cample) - UPS - Bus - Other:	#1	13	Yes Ye	s VE						



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

3-3

A DESCRIPTION OF THE PARTY OF T	tech Environmental & Safety Solu	Charles and Address of the Owner, where	Inc			1	BIL	L TO					ANALYSIS REQUEST
Project Manager: Jo	el (out)					P.	O. #:						
Address: 2617 Wes						C	ompany leg	acy Reser	rues				
City: Hobbs	State: NM	Zip:	882	240		1	ttn:	,					
Phone #: (575) 264-	9884 Fax #:					A	ddress:						
Project #:	Project Owne	r:					ity:						
Project Name: SPAV	injection line					St	tate:	Zip:		e	5M)	21B	
Project Location:	Thycoron cinc					Phone #:				Chloride	PH (8015M)	(8021B	
Sampler Name: Am	n Ries					-	ax #:			Chi	I	ВТЕХ	
FOR LAB USE ONLY		П	П	M	IATRIX		PRESERV. SAME		NG		1	BT	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME				
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Relinquished By:	Date: 1-5-22 Time: 25	Re	ceiv	ved By:	ers	1	Udas	Lek	Please e	email o	copy (of COC	OC and results to pm@etechenv.com.
Delivered By: (Cir	rcle One) _ 7.6 2) C-	05	0		ole Cond		CHECK!	ED BY:					
Samples - UPS - Bu		4	#11	3	es No	res No	A.) _					



March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accredited certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL #3 @ 7'	H220051-01	Soil	05-Jan-22 00:00	05-Jan-22 16:00
SW-2	H220051-02	Soil	05-Jan-22 00:00	05-Jan-22 16:00
SW-1	H220051-03	Soil	05-Jan-22 00:00	05-Jan-22 16:00

03/07/22 - Client changed the sample IDs of -02 and -03. This is the revised report and will replace the one sent on 01/10/22.

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

FL #3 @ 7' H220051-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.4 %	69.9	-140	2010701	MS/	07-Jan-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctane			75.0 %	66.9	-136	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			72.1 %	59.5	-142	2010606	MS	06-Jan-22	8015B	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

SW-2 H220051-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		94.9 %	69.9	-140	2010701	MS/	07-Jan-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctane			93.4 %	66.9	-136	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			90.5 %	59.5	-142	2010606	MS	06-Jan-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY Fax To:

Reported: 07-Mar-22 15:09

SW-1 H220051-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	TD)		94.6 %	69.9	-140	2010701	MS/	07-Jan-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctane			94.6 %	66.9	-136	2010606	MS	06-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			91.5 %	59.5	-142	2010606	MS	06-Jan-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018
Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2010705 - 1:4 DI Water										
Blank (2010705-BLK1)				Prepared &	k Analyzed:	07-Jan-22				
Chloride	ND	16.0	mg/kg							
LCS (2010705-BS1)				Prepared &	analyzed:	07-Jan-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2010705-BSD1)				Prepared &	k Analyzed:	07-Jan-22				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Toluene

Ethylbenzene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

m,p-Xylene

o-Xylene

Project: LEGACY SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

99.1

98.4

102

103

102

929

88.6-116

84.4-115

85.5-116

85.2-111

86.2-113

69 9-140

3.47

3.81

4.02

3.86

3.97

13.3

13.9

13.6

14.1

13.4

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

0.050

0.050

0.100

0.050

0.150

Result

1.98

1.97

4.07

2.05

6.12

0.0464

Batch 2010701 - Volatiles										
Blank (2010701-BLK1)		Prepared & Analyzed: 07-Jan-22								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	94.5	69.9-140				
LCS (2010701-BS1)		Prepared & Analyzed: 07-Jan-22								
Benzene	2.02	0.050	mg/kg	2.00	101	85.1-114				
Toluene	1.91	0.050	mg/kg	2.00	95.7	88.6-116				
Ethylbenzene	1.89	0.050	mg/kg	2.00	94.7	84.4-115				
m,p-Xylene	3.91	0.100	mg/kg	4.00	97.6	85.5-116				
o-Xylene	1.97	0.050	mg/kg	2.00	98.7	85.2-111				
Total Xylenes	5.88	0.150	mg/kg	6.00	98.0	86.2-113				
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500	92.7	69.9-140				
LCS Dup (2010701-BSD1)				Prepared & Anal	yzed: 07-Jan-22					
Benzene	2.10	0.050	mg/kg	2.00	105	85.1-114	3.51	12.6		

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

2.00

2.00

4.00

2.00

6.00

0.0500

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: LEGACY SPAU INJECTION LINE

Spike

Level

50.0

50.0

Source

Result

%REC

102

103

66.9-136

59.5-142

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:09

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

51.2

51.4

Blank (2010606-BLK1)			Prepared & Analyzed: 06-Jan-22							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0	117	66.9-136				
Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0	120	59.5-142				
LCS (2010606-BS1)				Prepared & Anal	lyzed: 06-Jan-22					
GRO C6-C10	193	10.0	mg/kg	200	96.3	81.6-129				
DRO >C10-C28	186	10.0	mg/kg	200	93.2	83-129				
Total TPH C6-C28	379	10.0	mg/kg	400	94.8	84.5-127				
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0	102	66.9-136				
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0	103	59.5-142				
LCS Dup (2010606-BSD1)				Prepared & Anal	lyzed: 06-Jan-22					
GRO C6-C10	194	10.0	mg/kg	200	96.9	81.6-129	0.615	21.4		
DRO >C10-C28	190	10.0	mg/kg	200	94.8	83-129	1.65	17.9		
Total TPH C6-C28	383	10.0	mg/kg	400	95.9	84.5-127	1.13	17.6		

mg/kg

mg/kg

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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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OCD: 7/27/2022 7:59:27 AM

ARDINAL I

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Solutions, Inc.					BI	LL TO		ANALYSIS REQUEST									
Project Manager:					P	P.O. #:											
Address: 2617 West Marland					С	Company LegaCy				TPH (8015M)							
City: Hobbs State: NM Zip: 88240					- 1	Attn:											
Phone #: (575) 264-9884 Fax #:						A	Address: ,,										
Project #: 15018 Project Owner:					С	City:					_						
Project Name: Legacy SPAU injection Line					s	State: Zip:					BTEX (8021B)						
Project Location:					Р	Phone #:											
Sampler Name: Auton Rios					F	ax #:			Chloride	TPH (втех						
FOR LAB USE ONLY MATRIX				X	PRESERV	. SAMPL	ING	1									
<i>H330051</i> Lab I.D.	Sample	e I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	ACID/BASE: ICE / COOL OTHER :	DATE	TIME							
/ FL#	3 @	7'	Ť	X		X		X	1-8-22		X	X	X				
2 - 60 0 7	tt .	SW-2		X		X		X.	1-5-22		Х	1	X				
3 ww	#2	SW-1		X		X		X	1-5-22		X	X	Х				
					-	0.5								3			
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PLEASE NOTE: Liability and Damages.	Cardinal's liability a	and client's exclusive remedy for	any clai	m arisi	ing whether t	ased in c	contract or t	tort, shall be limited	to the amount pa	id by the client fo	r the						
analyses. All claims including those for r service. In no event shall Cardinal be lial	ble for incidental or	consequental damages, includir	ng witho	ut limit	ation, busine	ss interru	ptions, loss	s of use, or loss of p	profits incurred by	client, its subsidia	aries,	ble					
affiliates or successors arising out of or re Relinquished By:	elated to the perform	Doto	D.		ved By:		h claim is b	ased upon any of t	the above stated of	Phone Re		□ Y€	es [□ No □ Add'l Phone #:			
1 250		1-5-22 fime:			1/21	100	M	Mallo	0/00	Fax Resu REMARK	ilt: S:	□ Ye	es [□ No Add'l Fax #:			
Peron Pios Relinquished By:		7600 Date:	0	acai	ved By	u i	ia l	Mau	es y	XY	000	F 0 .	L' w	ad the sample IDS. Chi/12			
Reiniquisileu by.			TX.	5061	veu by					12	aci	14	שר וייע	2/7/12			
		Time:								Please 6	e email copy of COC and results to pm@etechenv.com.						
Delivered By: (Circ	le One)	6.4° C-0	0,5	50	Sam	ple Co	ondition		KED BY: itials)								
Sampler UPS - Bus - Other: (2.4e) (-0.5e Cool Intact Yes To No						Yes	40										
			-	-		110	140			-	-	The same of the same of					



March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/06/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accredited certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-1	H220062-01	Soil	06-Jan-22 00:00	06-Jan-22 16:00
WW-2	H220062-02	Soil	06-Jan-22 00:00	06-Jan-22 16:00

03/07/22 - Client changed the sample IDs on -01 and -02. This is the revised report and will replace the one sent on 01/ 11/22.

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Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

WW-1 H220062-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	2010715	GM	07-Jan-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		94.8 %	69.9	-140	2010707	MS/	07-Jan-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctane			98.8 %	66.9	-136	2010713	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	59.5	-142	2010713	MS	07-Jan-22	8015B	

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Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

WW-2 H220062-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2010715	GM	07-Jan-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		95.2 %	69.9	-140	2010707	MS/	07-Jan-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctane			94.9 %	66.9	-136	2010714	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			100 %	59.5	-142	2010714	MS	07-Jan-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010715 - 1:4 DI Water										
Blank (2010715-BLK1)				Prepared &	z Analyzed:	07-Jan-22				
Chloride	ND	16.0	mg/kg							
LCS (2010715-BS1)				Prepared &	Analyzed:	07-Jan-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2010715-BSD1)				Prepared &	z Analyzed:	07-Jan-22				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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Celey D. Keene



%REC

Limits

86.2-113

69.9-140

93.4

7.30

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: LEGACY SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

RPD

Limit

13.4

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

6.20

0.0467

0.150

mg/kg

mg/kg

6.00

0.0500

1 many to	resure	2	Omio	20.01	1000011	, or the	Lilling	Tu D	2	11000
Batch 2010707 - Volatiles										
Blank (2010707-BLK1)				Prepared &	Analyzed:	07-Jan-22				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	69.9-140			-
LCS (2010707-BS1)				Prepared &	Analyzed:	07-Jan-22				
Benzene	1.97	0.050	mg/kg	2.00		98.7	85.1-114			
Toluene	1.86	0.050	mg/kg	2.00		92.9	88.6-116			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.8	84.4-115			
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.8	85.5-116			
o-Xylene	1.93	0.050	mg/kg	2.00		96.5	85.2-111			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.1	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.5	69.9-140			
LCS Dup (2010707-BSD1)				Prepared &	Analyzed:	07-Jan-22				
Benzene	2.12	0.050	mg/kg	2.00		106	85.1-114	6.97	12.6	
Toluene	2.00	0.050	mg/kg	2.00		99.8	88.6-116	7.21	13.3	
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.4-115	7.27	13.9	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	85.5-116	7.14	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.2-111	7.61	14.1	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LEGACY SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2010713 - General Prep - Orga	nics

Blank (2010713-BLK1)				Prepared & Ana	lyzed: 07-Jan-22				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0	113	66.9-136			
Surrogate: 1-Chlorooctadecane	57.4		mg/kg	50.0	115	59.5-142			
LCS (2010713-BS1)				Prepared & Ana	lyzed: 07-Jan-22				
GRO C6-C10	193	10.0	mg/kg	200	96.4	81.6-129			
DRO >C10-C28	187	10.0	mg/kg	200	93.4	83-129			
Total TPH C6-C28	380	10.0	mg/kg	400	94.9	84.5-127			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0	102	66.9-136			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0	103	59.5-142			
LCS Dup (2010713-BSD1)				Prepared & Ana	lyzed: 07-Jan-22				
GRO C6-C10	193	10.0	mg/kg	200	96.6	81.6-129	0.181	21.4	
DRO >C10-C28	189	10.0	mg/kg	200	94.3	83-129	0.985	17.9	
Total TPH C6-C28	382	10.0	mg/kg	400	95.4	84.5-127	0.577	17.6	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0	104	66.9-136			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0	105	59.5-142			

Batch 2010714 - General Prep - Organics

Blank (2010714-BLK1)				Prepared & Analy	zed: 07-Jan-22		
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0	105	66.9-136	
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0	111	59.5-142	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: LEGACY SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 15:03

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (2010714-BS1)				Prepared & Anal	lyzed: 07-Jan-22			
GRO C6-C10	206	10.0	mg/kg	200	103	81.6-129		
DRO >C10-C28	238	10.0	mg/kg	200	119	83-129		
Total TPH C6-C28	445	10.0	mg/kg	400	111	84.5-127		
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0	98.9	66.9-136		
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0	104	59.5-142		
LCS Dup (2010714-BSD1)				Prepared & Anal	lyzed: 07-Jan-22			
GRO C6-C10	228	10.0	mg/kg	200	114	81.6-129	10.1	21.4
DRO >C10-C28	233	10.0	mg/kg	200	116	83-129	2.29	17.9
Total TPH C6-C28	461	10.0	mg/kg	400	115	84.5-127	3.65	17.6
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0	97.6	66.9-136		
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0	104	59.5-142		

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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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Celey D. Keene

RDINAL LABORATORIES

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

CHAIN-OF-CUSTODY	AND	ANAL	YSIS	REQUEST

ompany Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST	
oject Manager:	P.O. #:		
Idress: 2617 West Marland	Company Legacy		
ty: Hobbs State: NM Zip: 88240	Attn:		
none #: (575) 264-9884 Fax #:	Address:		
oject #: /50/8 Project Owner:	City:		
oject Name: Legaly SPAU injection Line #15018	State: Zip:	21B 51M)	
oject Location:	Phone #:	Chloride TPH (8015M) 3TEX (8021B	
ampler Name: Awon Rios	Fax #:	Chick Chick	
OR LAB USE ONLY MATRIX	PRESERV. SAMPLING		
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER: ATAM		
1 AWFI. WW- XXX	x 1-6-22	X X X	- manada an
ZAWFZ WW-Z X X	X- 1-6-22	x x x	
		 	
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alyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing a vice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions	s, loss of use, or loss of profits incurred by client, its subsidia	iaries,	
liates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim ellinquished By: Date: Received By: Time:	Phone Re	esult:	
	1 100		
Time:	Please 6	email copy of COC and results to pm@etechenv.com.	
Delivered By: (Circle One) 48 C-0.5 Sample Cond	ition CHECKED BY:	. •	
Sampler-UPS - Bus - Other: 4. 3e #1/3 No No	es To		



March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/22 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018
Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL # 1 @ 14'	H220774-01	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 2 @ 12'	H220774-02	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 3 @ 12'	H220774-03	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 4 @ 12'	H220774-04	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 5 @ 12'	H220774-05	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 6 @ 12'	H220774-06	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 7 @ 12'	H220774-07	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 8 @ 12'	H220774-08	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 9 @ 12'	H220774-09	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 10 @ 12'	H220774-10	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 11 @ 7'	H220774-11	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 12 @ 7'	H220774-12	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 13 @ 5'	H220774-13	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 14 @ 5'	H220774-14	Soil	28-Feb-22 00:00	28-Feb-22 16:50
TT - 1 @ 14'	H220774-15	Soil	28-Feb-22 00:00	28-Feb-22 16:50
TT - 2 @ 24'	H220774-16	Soil	28-Feb-22 00:00	28-Feb-22 16:50
SW-4	H220774-17	Soil	28-Feb-22 00:00	28-Feb-22 16:50
EW-2	H220774-18	Soil	28-Feb-22 00:00	28-Feb-22 16:50

03/07/22 - Client revised the sample IDs for -17 and -18. This is the revised report and it replaces the one sent on 03/02/22.

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Celeg D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 1 @ 14' H220774-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)))		104 %	69.9	-140	2030111	MS\	01-Mar-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			89.5 %	66.9	-136	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			97.7 %	59.5	-142	2030108	MS	01-Mar-22	8015B	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 2 @ 12' H220774-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	69.9	-140	2030111	MS\	01-Mar-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			88.1 %	66.9	-136	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	59.5	-142	2030108	MS	01-Mar-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL#3@12' H220774-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030111	MS∖	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030111	$MS \setminus$	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030111	$MS \setminus$	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030111	$MS \setminus$	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030111	$MS \setminus$	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		104 %	69.9	-140	2030111	MS\	01-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			93.4 %	66.9	-136	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	59.5	-142	2030108	MS	01-Mar-22	8015B	

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 4 @ 12' H220774-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	304		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		103 %	69.9	-140	2030116	MS	02-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			94.7 %	66.9	-136	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	59.5	-142	2030108	MS	01-Mar-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 5 @ 12' H220774-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	69.9	-140	2030116	MS	02-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			103 %	66.9	-136	2030108	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			115 %	59.5	-142	2030108	MS	01-Mar-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 6 @ 12' H220774-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	544		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		104 %	69.9	-140	2030116	MS	02-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			91.0 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			93.2 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018 Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 7 @ 12' H220774-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))	·	103 %	69.9	-140	2030116	MS	02-Mar-22	8021B	·
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			96.9 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			98.7 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 8 @ 12' H220774-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	576		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9	-140	2030116	MS	02-Mar-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			94.7 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			97.4 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 9 @ 12' H220774-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	7360		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		103 %	69.9	-140	2030116	MS	02-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			102 %	66.9-	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 10 @ 12' H220774-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		103 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			89.0 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			90.6 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 11 @ 7' H220774-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds h	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		104 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			95.6 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			98.4 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 12 @ 7' H220774-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	ıl Laborat	ories								
Inorganic Compounds													
Chloride	3840		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B				
Volatile Organic Compounds	by EPA Method	8021											
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B				
Surrogate: 4-Bromofluorobenzene (Pla	D)		105 %	69.9	-140	2030115	MS	01-Mar-22	8021B				
Petroleum Hydrocarbons by	GC FID												
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B				
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B				
Surrogate: 1-Chlorooctane			98.7 %	66.9	-136	2030109	MS	01-Mar-22	8015B				
Surrogate: 1-Chlorooctadecane			102 %	59.5	-142	2030109	MS	01-Mar-22	8015B				

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 13 @ 5' H220774-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		103 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			92.2 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			94.9 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

FL # 14 @ 5' H220774-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			97.2 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			99.1 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

TT - 1 @ 14' H220774-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			101 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			103 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

TT - 2 @ 24' H220774-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	•
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		104 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			108 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

SW-4 H220774-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		104 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			100 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celeg D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018 Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

EW-2 H220774-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
Volatile Organic Compounds h	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		104 %	69.9	-140	2030115	MS	01-Mar-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctane			101 %	66.9	-136	2030109	MS	01-Mar-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	59.5	-142	2030109	MS	01-Mar-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018 Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030204 - 1:4 DI Water										
Blank (2030204-BLK1)				Prepared &	: Analyzed:	02-Mar-22				
Chloride	ND	16.0	mg/kg							
LCS (2030204-BS1)				Prepared &	Analyzed:	02-Mar-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2030204-BSD1)				Prepared &	Analyzed:	02-Mar-22				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 2030205 - 1:4 DI Water										
Blank (2030205-BLK1)				Prepared &	: Analyzed:	02-Mar-22				
Chloride	ND	16.0	mg/kg							
LCS (2030205-BS1)				Prepared &	: Analyzed:	02-Mar-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2030205-BSD1)				Prepared &	: Analyzed:	02-Mar-22				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Daten	2030111 -	voiatiles

Blank (2030111-BLK1)				Prepared & Anal	yzed: 01-Mar-22	2			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500	104	69.9-140			
LCS (2030111-BS1)				Prepared & Anal	yzed: 01-Mar-22	2			
Benzene	2.13	0.050	mg/kg	2.00	107	83.4-122			
Toluene	2.09	0.050	mg/kg	2.00	105	84.2-126			
Ethylbenzene	2.10	0.050	mg/kg	2.00	105	84.2-121			
m,p-Xylene	4.41	0.100	mg/kg	4.00	110	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00	104	84.3-123			
Total Xylenes	6.50	0.150	mg/kg	6.00	108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500	99.8	69.9-140			
LCS Dup (2030111-BSD1)				Prepared & Anal	yzed: 01-Mar-22	2			
Benzene	2.12	0.050	mg/kg	2.00	106	83.4-122	0.447	12.6	
Toluene	2.09	0.050	mg/kg	2.00	104	84.2-126	0.106	13.3	
Ethylbenzene	2.10	0.050	mg/kg	2.00	105	84.2-121	0.0903	13.9	
m,p-Xylene	4.41	0.100	mg/kg	4.00	110	89.9-126	0.112	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00	104	84.3-123	0.148	14.1	
Total Xylenes	6.49	0.150	mg/kg	6.00	108	89.1-124	0.123	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500	103	69.9-140			

Batch 2030115 - Volatiles

Blank (2030115-BLK1)		Prepared & Analyzed: 0	01-Mar-22
Benzene	ND	0.050 mg/kg	
Toluene	ND	0.050 mg/kg	
Ethylbenzene	ND	0.050 mg/kg	
Total Xylenes	ND	0.150 mg/kg	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2030115 - Volatiles										
Plank (2020115 DI V1)				Dranarad &	Analyzadı	01 Mar 22				

Blank (2030115-BLK1)				Prepared & Anal	yzed: 01-Mar-22	2			
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500	103	69.9-140			
LCS (2030115-BS1)				Prepared & Anal	yzed: 01-Mar-22	!			
Benzene	2.04	0.050	mg/kg	2.00	102	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00	102	84.2-126			
Ethylbenzene	1.95	0.050	mg/kg	2.00	97.5	84.2-121			
m,p-Xylene	4.09	0.100	mg/kg	4.00	102	89.9-126			
o-Xylene	1.94	0.050	mg/kg	2.00	97.1	84.3-123			
Total Xylenes	6.03	0.150	mg/kg	6.00	100	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500	98.9	69.9-140			
LCS Dup (2030115-BSD1)				Prepared & Anal	yzed: 01-Mar-22	!			
Benzene	2.09	0.050	mg/kg	2.00	104	83.4-122	2.43	12.6	
Toluene	2.08	0.050	mg/kg	2.00	104	84.2-126	2.02	13.3	
Ethylbenzene	2.01	0.050	mg/kg	2.00	100	84.2-121	2.94	13.9	
m,p-Xylene	4.21	0.100	mg/kg	4.00	105	89.9-126	2.99	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00	101	84.3-123	3.56	14.1	
Total Xylenes	6.22	0.150	mg/kg	6.00	104	89.1-124	3.18	13.4	

Batch 2030116 - Volatiles

Surrogate: 4-Bromofluorobenzene (PID)

Blank (2030116-BLK1)				Prepared: 01-Mar-22 Analyzed: 02-Mar-22	
Benzene	ND	0.050	mg/kg		
Toluene	ND	0.050	mg/kg		
Ethylbenzene	ND	0.050	mg/kg		
Total Xylenes	ND	0.150	mg/kg		
Total BTEX	ND	0.300	mg/kg		
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500 104 69.9-140	

mg/kg

0.0500

101

69.9-140

0.0506

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2030116 - Volatiles										
LCS (2030116-BS1)				Prepared: ()1-Mar-22 <i>F</i>	Analyzed: (2-Mar-22			
Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122			
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			
LCS Dup (2030116-BSD1)				Prepared: ()1-Mar-22 A	Analyzed: 0	2-Mar-22			
Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122	0.0321	12.6	
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126	0.0529	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121	0.430	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126	0.766	13.6	
o-Xylene	1.96	0.050	mg/kg	2.00		97.9	84.3-123	3.04	14.1	
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124	1.50	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	69.9-140			

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: SPAU INJECTION LINE

Project Number: 15018

Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

A1	D14	Reporting	T T '4-	Spike	Source	0/DEC	%REC	DDD	RPD	Nistas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2030108 - General Prep - Organics										
DII- (2020100 DI I/1)				D 1 0	A 1	01 M 22				

			Prepared & Ana	lyzed: 01-Mar-22	2			
ND	10.0	mg/kg						
ND	10.0	mg/kg						
ND	10.0	mg/kg						
47.6		mg/kg	50.0	95.3	66.9-136			
52.4		mg/kg	50.0	105	59.5-142			
			Prepared & Ana	lyzed: 01-Mar-22	!			
216	10.0	mg/kg	200	108	81.6-129			
212	10.0	mg/kg	200	106	83-129			
427	10.0	mg/kg	400	107	84.5-127			
54.1		mg/kg	50.0	108	66.9-136			
59.1		mg/kg	50.0	118	59.5-142			
			Prepared & Ana	lyzed: 01-Mar-22	!			
227	10.0	mg/kg	200	113	81.6-129	4.91	21.4	
221	10.0	mg/kg	200	111	83-129	4.40	17.9	
448	10.0	mg/kg	400	112	84.5-127	4.66	17.6	
52.9		mg/kg	50.0	106	66.9-136			
56.5		mg/kg	50.0	113	59.5-142			
	ND ND 47.6 52.4 216 212 427 54.1 59.1 227 221 448 52.9	ND 10.0 ND 10.0 47.6 52.4 216 10.0 212 10.0 427 10.0 54.1 59.1 227 10.0 221 10.0 448 10.0 52.9	ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 52.4 mg/kg 216 10.0 mg/kg 212 10.0 mg/kg 427 10.0 mg/kg 59.1 mg/kg 227 10.0 mg/kg 221 10.0 mg/kg 59.1 mg/kg 59.1 mg/kg 210.0 mg/kg 221 10.0 mg/kg 221 10.0 mg/kg 221 10.0 mg/kg 221 10.0 mg/kg	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 50.0 Prepared & Ana 216 10.0 mg/kg 200 212 10.0 mg/kg 200 427 10.0 mg/kg 400 54.1 mg/kg 50.0 prepared & Ana 227 10.0 mg/kg 200 221 10.0 mg/kg 200 Prepared & Ana 227 10.0 mg/kg 200 221 10.0 mg/kg 200 221 10.0 mg/kg 200 352.9 mg/kg 50.0	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 50.0 95.3 52.4 mg/kg 50.0 105 Prepared & Analyzed: 01-Mar-22 216 10.0 mg/kg 200 108 212 10.0 mg/kg 200 106 427 10.0 mg/kg 400 107 54.1 mg/kg 50.0 108 59.1 mg/kg 50.0 118 Prepared & Analyzed: 01-Mar-22 227 10.0 mg/kg 200 113 221 10.0 mg/kg 200 113 221 10.0 mg/kg 200 111 448 10.0 mg/kg 400 112 52.9 mg/kg 50.0 106	ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 50.0 95.3 66.9-136 52.4 mg/kg 50.0 105 59.5-142 Prepared & Analyzed: 01-Mar-22 216 10.0 mg/kg 200 108 81.6-129 212 10.0 mg/kg 200 106 83-129 427 10.0 mg/kg 400 107 84.5-127 54.1 mg/kg 50.0 108 66.9-136 59.1 mg/kg 50.0 118 59.5-142 Prepared & Analyzed: 01-Mar-22 227 10.0 mg/kg 200 113 81.6-129 221 10.0 mg/kg 200 111 83-129 448 10.0 mg/kg 400 112 84.5-127 552.9 mg/kg 50.0 106 66.9-136	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 50.0 95.3 66.9-136 52.4 mg/kg 50.0 105 59.5-142 Prepared & Analyzed: 01-Mar-22 216 10.0 mg/kg 200 108 81.6-129 212 10.0 mg/kg 200 106 83-129 427 10.0 mg/kg 400 107 84.5-127 54.1 mg/kg 50.0 108 66.9-136 59.1 mg/kg 50.0 118 59.5-142 Prepared & Analyzed: 01-Mar-22 227 10.0 mg/kg 200 113 81.6-129 4.91 221 10.0 mg/kg 200 111 83-129 4.40 448 10.0 mg/kg 400 112 84.5-127 4.66 52.9 mg/kg 50.0 106 66.9-136	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 47.6 mg/kg 50.0 95.3 66.9-136 52.4 mg/kg 50.0 105 59.5-142 Prepared & Analyzed: 01-Mar-22 216 10.0 mg/kg 200 108 81.6-129 212 10.0 mg/kg 200 106 83-129 427 10.0 mg/kg 400 107 84.5-127 54.1 mg/kg 50.0 108 66.9-136 59.1 mg/kg 50.0 118 59.5-142 Prepared & Analyzed: 01-Mar-22 227 10.0 mg/kg 200 113 81.6-129 4.91 21.4 221 10.0 mg/kg 200 111 83-129 4.40 17.9 448 10.0 mg/kg 400 112 84.5-127 4.66 17.6 52.9 mg/kg 50.0 106 66.9-136

Batch 2030109 - General Prep - Organics

Blank (2030109-BLK1)]	Prepared & Analyzed: 0	1-Mar-22	
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0	96.6	66.9-136
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0	102	59.5-142

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: SPAU INJECTION LINE

Spike

Level

Source

Result

%REC

Project Number: 15018
Project Manager: JOEL LOWRY

Fax To:

Reported: 07-Mar-22 16:20

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (2030109-BS1)				Prepared & Anal	yzed: 01-Mar-2	2		
GRO C6-C10	225	10.0	mg/kg	200	112	81.6-129		
DRO >C10-C28	206	10.0	mg/kg	200	103	83-129		
Total TPH C6-C28	431	10.0	mg/kg	400	108	84.5-127		
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0	122	66.9-136		
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0	120	59.5-142		
LCS Dup (2030109-BSD1)				Prepared & Anal	yzed: 01-Mar-2	2		
GRO C6-C10	243	10.0	mg/kg	200	121	81.6-129	7.70	21.4
DRO >C10-C28	224	10.0	mg/kg	200	112	83-129	8.58	17.9
Total TPH C6-C28	467	10.0	mg/kg	400	117	84.5-127	8.12	17.6
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0	123	66.9-136		
Surrogate: 1-Chlorooctadecane	57.7		mg/kg	50.0	115	59.5-142		

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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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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 8/2/2022 9:12:00 AM

roject Manager: Tel Lowry		BILL TO	ANALYSIS	REQUEST			
		P.O. #:					
ddress: P.O. Box 301		Company: Cogacy					
ty: Lovington State: NM Zip: 8826	0	Attn: Etech					
none #: (575) 396-2378 Fax #: (575) 396-1429		Address:					
roject #: /50/8 Project Owner:		City:					
roject Name: Legacy SPAU injection line #1501	8	State: Zip:	9 8	3TEX (8021B)			
roject Location:		Phone #:	Chloride	(80			
ampler Name: Acron Rios		Fax #:	당	ВТЕХ			
R LAB USE ONLY	MATRIX	PRESERV. SAMPLING		8			
(C)OMP							
(C)C	TER						1
Lab I.D. Sample I.D.	WA III	WBASE COOL ER:	-				
(6) RAB OR (C) ON TAINERS (C) ON TAINERS	WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:					
		Control of the last of the las		/			+
7 FL#1 @ 14	X	2-28-23	-	X X			+
3 FL # 3 @ 12' X	X	2 20. 20		Y X			
0 FL # 4 6 17'	X	2-20-21		XX			
< FL # 5 @ 121 X	ý	7-28-13		XX			
6 FL# 6 @ 121 X	X	2-28-22		y x			
7 FL# 9@12' X	X	2-28-22		y X			
8 FL# 8 @ 12' X	У	2-28-22	X	XX			
9 FL# 9@ 12' X	X	2-28-22	Y	XX			
11 FL# 10 @ 12' X	X	278-22	V	VX			

FORM-006 Revision 1.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Sol	utions, Inc.	BILL TO	-		ANALYSIS REQUEST			
Project Manager: Joel Lowry		P.O. #:						
Address: 2617 West Marland		Company Legacy						
City: Hobbs State: NM	Zip: 88240	Attn:	1					
Phone #: (575) 264-9884 Fax #:		Address:						
Project #: /50/8 Project Own	er:	City:						
Project Name: Legacy SPAU in Jection Lin		State: Zip:	Î	m				
	Project Location:							
		Phone #:	Chloride PH (8015M)	X (8021				
Sampler Name: Acron RioS	MATRI	Fax #: X PRESERV SAMPLING	이글	TEX				
FOR LAB USE ONLY	1	TRESERV. SAMPLING		an l				
1	OR (C)OMP AINERS DWATER WATER							
Lab I.D. Sample I.D.	S)RAB OR (C)C CONTAINERS ROUNDWATE ASTEWATER OIL	iii d						
Lab i.b. Sample i.b.	NTA O	BASS COOC						
Merchen	(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:						
11 FL# 11 @ 7Ft	y y	2-28-22	XX	X				
12 FL# 12 @ 7Ft	X X	2-28-22	y x	X				
13 FL # 13 @ 5 Ft	Y X	2-28-22	XX	X				
14 FL# 14 60 5 Ft	X X	2-28-21	XX	X				
(TT-16 14 Ft	X X	2-28-22	XX	X				
16 TT-2 6 24 Ft	X X	2-28-22	XX	X				
17 WW #3 510-4	X X	2-28-22	XX	X				
18 Sw#2 FM2-2	X X	2-28-22	XX	X				
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Privice. In no event shall Cardinal be liable for incidental or consequental damages, included hilliates or successors arising out of or related to the performance of services hereunder b	ing without limitation, business interrup	ptions, loss of use, or loss of profits incurred by client, its subsidia	ries,					
Relinquished By: Date: 36-36		Phone Re	esult:					
	? laurel	Fax Resu REMARK	it: Y	s 🗆 No	langed as per Jose. 3/7/2			
Relinquished By: Date:	Received By:	a delle XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	amples	DS ch	langed as per sol. 3/7/26			
	Toolivou by.		,		cle			
Time:			email copy	of COC a	nd results to pm@etechenv.com.			
Delivered By: (Circle One) 6.8 a C-	0,5° Sample Co							
Sampler - UPS - Bus - Other: 6.3	#1/3 THO	Tres 70						



March 04, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/04/2022 Sampling Type: Soil

Project Name: LEGACY SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: TT - 3 @ 15' (H220826-01)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: TT - 4 @ 16'	(H220826-02	2)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: TT - 4 @ 18'	(H220826-03)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	- "								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	Reporting Limit	Analyzed 03/04/2022	Method Blank ND	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride		16.0	,			,	•		Qualifier
Chloride	256	16.0	03/04/2022			,	•		Qualifier
Chloride Sample ID: TT - 5 @ 16'	256 (H220826-04	16.0	03/04/2022	ND		,	•		Qualifier

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/04/2022 Sampling Type: Soil

Project Name: LEGACY SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: TT - 6 @ 14' (H220826-05)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 21' (H220826-06)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2190	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 26' (H220826-07)

Chloride, SM4500CI-B mg/kg			Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 29' (H220826-08)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	432	108	400	0.00	

Sample ID: TT - 8 @ 6' (H220826-09)

Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

ARDINAL LABORATORIES

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

	C.	BILL TO ANALYSIS REQUEST								
Project Manager:	Toel Coury				P.O. #:					
Address: 2617 W	est Marland				Company 2	regacy				
City: Hobbs	State: NM	Zip	: 88	240	Attn:	0 1				
Phone #: (575) 26	64-9884 Fax #:				Address:		-			
Project #: /50/	Project Ov	vner:			City:					
Project Name: Le	gocy SPAU inject	ton	Lin	ne # 15018	State: Zip:			9	(MS	(B)
Project Location:					Phone #:			brid	301	(8021
Sampler Name: 4	Sampler Name: Auton Rios							Chloride	PH (8015M)	EX
FOR LAB USE ONLY		T	T	MATRIX	PRESERV.	SAMPLING			2	E
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:					
4220826	- 20 .51	9	14:		OT OT	DATE TI	ME			
1.7	7-3 (4) 15	_	X	X		3-2-22	_	X		
2.7	7-9 @ 16	_	X	X		3-2-32	_	X		
3 T	1-9 (4) 18	_	X	X		3-2-22	-	X		
417	7-3 (4) (6)	-	\\	×		2-9-97	-	X		
5 7	7-6 (4) 19	-	X	- 3		2-9-99	-	X		
6 11	7-7 6 21	_	X	2		2-2-20	-	X	-	
77	-7 A 261	-	1	· · · · · · · ·		3-1-11	-	X		
9 7	r-8 (1) 61	-	X			3-2-22	-	V		
411	0 00		1		minimum land	0 2 00		^		
	ages. Cardinal's liability and client's exclusive remed- e for negligence and any other cause whatsoever sha								vie .	
liates or successors arising out of	be fiable for incidental or consequental damages, inco of or related to the performance of services hereunde	er by Cardina	i, regar	diess of whether such claim		above stated reasons or	otherwise.			
elinquished By:	Date:	Re	eceiv	ved By:		Fax	ne Resilt: Result: IARKS:		☐ Ye	
elinquished By:	Date: 3-3-3	Re	eceiv	ved By:	000	110				
Aaron Rios	Time: Le 20	00		Muara	Aldas	Plea	ase en	nail c	ору о	of COC and results to pm@etechenv.com.
Delivered By: (C	Delivered By: (Circle One) 5,40 C-0,52 Sample Conditi					ED BY:				
cample - UPS - Bus - Other: 4.9° #1/3 Fyes Fyes					Pres (Initials) ASAP Chloride					
500M 006		-	11	No No	V_		-		-	



March 08, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 03/02/2022
 Sampling Date:
 03/02/2022

 Reported:
 03/08/2022
 Sampling Type:
 Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: FL # 15 @ 14' (H220831-01)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: FL # 16 @ 14'	•	•							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: FI # 17 @ 14'	(H220831-	N3)							
•	(H220831-	-	Δnalvze	d Bv: GM					
Chloride, SM4500CI-B	mg	/kg	•	d By: GM Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier
Chloride, SM4500Cl-B Analyte	Result	/kg Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg	/kg	•		BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500Cl-B Analyte	Result 64.0	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result 64.0	Reporting Limit 16.0	Analyzed 03/04/2022	Method Blank		•	•		Qualifier
Chloride, SM4500Cl-B Analyte Chloride Sample ID: FL # 18 @ 14	Result 64.0	Reporting Limit 16.0	Analyzed 03/04/2022	Method Blank ND		•	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil
Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact

Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: FL # 19 @ 14	ł' (H220831-	05)							
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: FL # 20 @ 12	2' (H220831-(06)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	ND	400	100	400	3.92	
Sample ID: FL # 21 @ 14	ł' (H220831-(07)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 22 @ 14' (H220831-08)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 23 @ 12' (H220831-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/07/2022	ND	416	104	400	3.77	

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022 Reported: 03/08/2022 Sampling Type: Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 15018 Sample Received By:

Project Location: LEGACY RESERVES

Chloride Sample ID: FL # 25 @ 13' (H22: Chloride, SM4500Cl-B	Result 368 20831-	•	Analyzed 03/07/2022	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Chloride Sample ID: FL # 25 @ 13' (H22: Chloride, SM4500Cl-B	368 20831-	16.0 11)	03/07/2022			•	•		Qualifier
Sample ID: FL # 25 @ 13' (H22 Chloride, SM4500Cl-B	20831-	11)	, ,	ND	416	104	400	3.77	
Chloride, SM4500Cl-B		•							
,	mg	/ka							
Analyte				d By: GM					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 26 @ 13' (H22									

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 27 @ 13' (H220831-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 28 @ 13' (H220831-14)

Chloride, SM4500Cl-B	` mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/07/2022	ND	416	104	400	3.77	

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 15018 Tamara Oldaker

Project Location: LEGACY RESERVES

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 30 @ 12	2' (H220831-	16)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 31 @ 12	2' (H220831-:	17)							
Chloride, SM4500Cl-B	` mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 32 @ 12	2' (H220831-:	18)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Chioride, SM4500CI-B	mg	/ kg	Anaiyze	а ву: см					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 33 @ 12' (H220831-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2022	ND	416	104	400	3.77	

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Tamara Oldaker

Sample Received By:

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil
Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact

Project Number: 15018

Project Location: LEGACY RESERVES

Sample ID: FL # 34 @ 4' (H220831-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 35 @ 10	' (H220831-	21)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 36 @ 7' Chloride, SM4500Cl-B	(H220831-2 mg	-	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 37 @ 6'	(H220831-2	3)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/07/2022	ND	416	104	400	3.77	
Sample ID: FL # 38 @ 10	' (H220831-:	24)							
Chloride, SM4500CI-B	` mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/07/2022	ND	416	104	400	3.77	

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Celey D. Keine

Cardinal Laboratories



Sample Received By:

03/02/2022

Tamara Oldaker

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date:

Reported: 03/08/2022 Sampling Type: Soil
Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact

Project Number: 15018

Project Location: LEGACY RESERVES

Sample ID: FL # 39 @ 10' (H220831-25)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 40 @ 4' (H220831-26)

Chloride, SM4500CI-B	600Cl-B mg/kg			d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 41 @ 7' (H220831-27)

Chlorido CM4E00CL P

Cilioriae, Sin4300Ci-B	iliy	' KY	Allalyze	u by. GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	03/07/2022	ND	416	104	400	3.77	

Analyzed By CM

Sample ID: FL # 42 @ 7' (H220831-28)

Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 43 @ 4' (H220831-29)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/07/2022	ND	416	104	400	3.92	

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: FL # 44 @ 4' (H220831-30)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/07/2022	ND	416	104	400	3.92	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 03/02/2022

03/08/2022

Project Name: SPAU INJECTION LINE

Project Number: 15018

Project Location: LEGACY RESERVES

Sampling Date: 03/02/2022

Sampling Type: Soil

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

Sample ID: NW # 2 (H220831-31)

Reported:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	03/07/2022	ND	416	104	400	3.92	
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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane 85.1 % 66		% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.5	% 59.5-14	22						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: NW # 3 (H220831-32)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	< 0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2022	ND	416	104	400	3.92	
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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane 75.1 % 66.9		% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.7	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 03/02/2022 Sampling Date: 03/02/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: NW # 4 (H220831-33)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	< 0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2022	ND	416	104	400	3.92	
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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.4	% 59.5-14	22						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 03/02/2022
 Sampling Date:
 03/02/2022

 Reported:
 03/08/2022
 Sampling Type:
 Soil

Project Name: SPAU INJECTION LINE Sampling Condition: Cool & Intact
Project Number: 15018 Sample Received By: Tamara Oldaker

Project Location: LEGACY RESERVES

Sample ID: NW # 5 (H220831-34)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2022	ND	416	104	400	3.92	
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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane 88.9 %		% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.7	% 59.5-14	2						

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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

ARDINAL LABORATORIES

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

	(575) 39	93-2326 FA	AX (575) 393-24	176																l	01	1
Company Name			al & Safety Solul	ions	, Inc			B	ILL	TO					ANA	ALYSIS	S RE	QUE	ST			
Project Manage	Joel	lowy					P.O.	#:														
Address: 261	7 West Ma	rland					Com	pany (legi	acy	,				4							
City: Hobbs			State: NM	Zip	: 882	240	Attn															1
Phone #: (575	5) 264-9884	1	Fax #:				Add	ess: ,														1
Project #: /50	18		Project Owner				City:															-
Project Name:	1 soncs	SPAN			70	# 15018	State		Zip:			9	(M)	TE I								-
Project Location	Legar	1010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01.		10-0	Pho					Chloride	PH (8015M	(8021B)								***************************************
Sampler Name:		Dinc					Fax					Shlo	H	EX	-							9
FOR LAB USE ONLY	HOLON	rio				MATRIX	-	RESERV	/. S	AMPLI	NG		2	10								
Lab I.D.	Ş	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ICE / COOL		DATE	TIME											
TUSSI	11 H	15 (4)	141	l =		X	0 4	2 0		2-22		V										
	T1 #	16 6	[4]		X	X	-		-	1		X										
3	11 #	17 1	141		x	X	- 1					y										
3	21 4	F19 (A	141		x	x						V										
4	LL #	10 1	141		X	×						X										
	F1 #	200	121	1	X	Х			П			V										-
6	FL #	21 @	141		x	X						X					*					100
8	EL #	22 (4)	141		y	X			1	1		У										
9	FL#	23 (4)	12'		X	X			1			У										
10	FL #	24 A	19.		x	X			Y	,		X										
LEASE NOTE: Liability an malyses, All claims includi ervice. In no event shall C ifiliates or successors arisi Relinquished B	ing those for neglig ardinal be liable to ing out of or relate	gence and any other	ent's exclusive remedy for a cause whatsoever shall be equental damages, including of services hereunder by 0	deeme g withou Cardina	d waive at fimita I, regare	d unless made in writing an tion, business interruptions.	loss of us	by Cardinal e, or loss of a	profits inc	days alter curred by c	r completion of the hent, its subsidiar	ne applicati nes, se.	ole ☐ Ye	s 🗆 h	lo Add	I Phone	#:					
telliquished b	у.		Time:								Fax Resul		□ Ye	s \square h	lo Add	I Fax #:						
						and Pur	/	700	1	1												-
Relinquished B	Ces .	One) 4	Date: 3-2 Time: 620	7		lamara Sample Condit	tion	CHEC		BY:	Please e			ŧ	and resu	lts to p	m@ei	techen	v.com			
Sampler - UPS			4.92			Cant Intent		(Ini	itials)		ASA	PC	Mor	1010								

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

2	of	H

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST	
Project Manager: Joel lowy	P.O. #:		
Address: 2617 West Marland	Company Legacy		
City: Hobbs State: NM Zip: 88240	Attn:		and the same of th
Phone #: (575) 264-9884 Fax #:	Address:		
Project #: 150/8 Project Owner:	City:		The state of the s
Project Name: Legacy SPAU injection line # 15018	State: Zip:	21B	- Long-
Project Location:	Phone #:	Chloride H (8015 EX (802)	
Sampler Name: Auron RioS	Fax #:	Chloride TPH (8015M) BTEX (8021B	and the same of th
Lab I.D. Sample I.D. #CONTAINERS GROUNDWATER WASTEWATER WASTEWATER OIL SLUDGE	PRESERV. SAMPLING ACID/BASE: OTHER: DATE TIME	in i	
11 FZ # 25 A) 131 X X	3-2-12	X	
12 12 # 26 A, 13' X Y		У	
13 FL # 27 A) 13' X X		¥	
14 FL # 28 AD 13' Y X		Х	
/S FL# 29 角 13° X X		X	
16 FL# 30 @ 12" X Y		X	
17 FL# 31 0 12' X		X V	
18 FL # 32 @ 12' Y	M.	V	
19 FL # 33 A) 12' X X		Ý	
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Relinquished By: Date: 3-2-2 Time: 20 Date: 3-2-2 Time: 420 Date: 3-2-2 Time: 420 Date: 3-2-2 Time: 420 Date: 420 D	ition CHECKED BY: (Initials) ASA	email copy of COC and results to pm@etechenv.com.	

Se 168 of 182

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

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Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Lown	P.O. #:	
Address: 2617 West Marland	Company Legacy	
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 48/50/8 Project Owner:	City:	
Project Name: Legacy SPAU injection line #1.	State: Zip:	(8021B
Project Location:	Phone #: 2ip: 91.04 9 15.08 H	(80
Sampler Name: Aaron Rios	State: Zip: 90 100 100 100 100 100 100 100 100 100	BIEX
FOR LAB USE ONLY	RIX PRESERV. SAMPLING	[6]
H CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER	OIL SLUDGE OTHER: ACIDIBASE: ICE / COOL OTHER: MMIL MMIL	
21 FL # 35 A) 10 X	3/2 X	
22 FL# 36 17 X	3-2-22 X	
	1 X	
33 FL # 37 & 6' X	X	
as FL ## 39 0 101 X	X	
26 FL # 40 10 4" X	X	
37 FL # 41 Q 7' X		
28 FL # 42 B) 71 X	W/ X	
30 El # 43 A 4		
S 105 4075 Links and Democracy Configure to him to all pure activities remedy for any claim arising whether be	in contract or tort, shall be limited to the amount paid by the client for the	
malyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless male	n writing and received by Cardinal within 30 days after completion of the applicable erruptions, loss of use, or loss of profits incurred by chent, its subsidiaries,	
Relinquished By: Date: Received By: Time:	Phone Result: You Fax Result: You REMARKS:	
Relinquished By: Date: Received By:	00111	
Relinquished By: Date: 3-2-22 Time: 7-2-2	ra Walter	
Delivered By: (Circle One) 54 3 C-0.52 Samp	Condition CHECKED BY:	of COC and results to pm@etechenv.com.
Delivered By: (Circle One) 5.4°) C-0.5° Sample Cool	Intact (Initials) ASAP CIAVA	dict
Sample - UPS - Bus - Other: (4,9 6 #113	No V-	(



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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (676) 202 2226 EAY (676) 303-2476

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ompany Name: Etech Environmental & Safety Solutions, Inc.	BILL TO		ANALYSIS REQUEST
oject Manager: Joel lowy	P.O. #:		
Idress: 2617 West Marland	Company LegaCy		
ty: Hobbs State: NM Zip: 88240	Attn:	di constituti di	
none #: (575) 264-9884 Fax #:	Address:		
oject #: 150/8 Project Owner:	City:		
oject Name: Legaly SPAU injection line #1501	State: Zip:	5MI)	218
oject Location:	Phone #:	Chloride PH (8015M)	(8021
Impler Name: Alaron RtoS	Fax #:	I Chi	BTEX
OR LAB USE ONLY MA		1 4	E B
GONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		
11 FZ # 25 Q) 13' X X	3-2-22	X	
12 12 # 26 A) 13' X X		Х	
13 FL# 27 A 13' X X		X	
14 FL # 28 @ 13'		X	
15 FL # 29 7 13' X		Х	
16 FL# 30 # 12' X		X X	
17 FL# 31 0 12' X		X	
18 FC # 32 (A) 12' X	N	V	
19 FL # 33 (1) 12 X	\ \\	Ý	
W FL# 37 W 7	contract or lort, shall be limited to the amount paid by the client i	or the	
EASE NOTE: Liability and Damages. Cardina's lability and clients exclusive remety on any client arising including those for negligence and any other cause whatsoever shall be deemed where unless made vives. In no event shall be deemed where unless made vives. In no event shall be deemed where the incidental or consequental damages, including without limitation, business if			
nice. In no event shall Cardinal be liable for incidental or consequential carlingles, including window minutes in the cardinal regardless of whether interest or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether interests of whether interests of the cardinal regardless of the cardinal	th claim is based upon any of the above scaled reasons or when Phone R Fax Res REMARI	esult: ☐ Yes	
elinquished By: Date: 3-2-22 Received By:	OND WA		
Amon Rios Time: 120 Illus	ra Wilday Please	email copy of	f COC and results to pm@etechenv.com.
Delivered By: (Circle One) 5-4- C-0.5c Sample	ondition CHECKED BY:	0 01 1.	de
	Yes Vo As	sp Chlor	114
	nt verbal changes. Please fax written	changes to 5	75-393-2476
FORM-006 † Cardinal cannot acc Revision 1.0	A TOISE CHANGES. I TOUGH TAK WITHOUT		
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Se 170 of 182

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

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Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Lowy	P.O. #:	
Address: 2617 West Marland	Company Legacy	
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: (575) 264-9884 Fax #:	Address: ,	
Project #: 48/50/8 Project Owner:	City:	
Project Name: Legacy SPAU injection line #1	State: Zip: 9 9 1.10 8 (W21 B 1.20 8)	
Project Location:	Phone #: $ \bar{o} \tilde{\omega} \tilde{\omega} $	
Sampler Name: Aaron 'Rios	State: Zip: Phone #: Phone #: Pax #: PRESERV SAMPLING PRESERV SAMPLING PRESERV PRESERV	
FOR LAB USE ONLY M.	RIX PRESERV. SAMPLING	
H CONTAINERS GROUNDWATER WASTEWATER WASTEWATER	OIL SLUDGE OTHER: OTHER: OTHER: OTHER:	
	3/2 Y	
21 FC#35 A) 10' X 32 FC# 36 & 7' X	3-2-22 X	
	1 X	
33 FL # 37 & 6' X	X	
25 FL # 39 0 101 X	X	*
26 FL # 40 10 4' X	X	
37 FL # 41 Q, T' X 38 FL # 42 Q, T' X		·
28 FL # 42 8) 71 X		
30 Fl # 43 7 4 X		
S 105 4075 Link's and Danness Cooklant's lighting and cliant's excluding ramedy for any claim arising whether bas	n contract or tort, shall be limited to the amount paid by the client for the	
malyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless mad	writing and received by Cardinal within 30 days after completion of the applicable ruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	
Relinquished By: Date: Received By:	Phone Result:	No Add'l Phone #: No Add'l Fax #:
Relinquished By: Date: 22 Received By:	00111	
1 1.e Time: 120	ra Walter	
Delivered By: (Circle One) 54 3 C-0.5 & Samp	Condition CHECKED BY:	C and results to pm@etechenv.com.
Delivered By: (Circle One) 5.4°) C-0.5° Samp	ntact (Initials) ASAP CIALORIA	0
Sample - UPS - Bus - Other: (4,9 & #113	No To	

Received by OCD: 7/27/2022 7:59:27 AM

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Page 4 of 4

Company Name:	Etech Environmen		_	, In	C.							BI	LL TO						ANA	LYS	IS R	EQUE	ST	-	ige 1 c	
Project Manager:	Joel Lowry								P.	0. #																Т
Address: 2617	W Marland								Co	omp	any	,	Etec	h	1											
City: Hobbs		State: NM	Zip	: 88	240)			At	tn:			Joel Low	rv	1											
Phone #: (575)	264-9884	Fax #:							1	ddre	ss:				1											
Project #: 15018	8	Project Owne	r:	Le	gad	у			Ci	ty:					1											
roject Name: S	SPAU Injection Line									ate:			Zip:		0	€ W	21B									
Project Location:	Rural Lea County,	NM							Pł	none	#:				Chloride	TPH (8015M)	BTEX (8021B)									
Sampler Name: J	oel Lowry								Fa	1x #:					ਤਿ	Ī	X									
FOR LAB USE ONLY			Т	Г	Г	N	MATR	RIX	_	PR	ESE	RV.	SAMPL	ING	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												
] E	W-1		С	1	Г		Х				Х		3/7/22	13:50	Х	Х	Х									
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ARDINAL LABORATORIES

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

	ental & Safety Solution	is, in	IC.		BIL	L TO		-			ANA	LYSIS	REQU	EST	
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none #: (575)*264-9884	Fax #:			Address	: .										
roject #: /50/8	Project Owner:			City:											
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roject Location:				Phone #:				Chloride	301	(8021					
ampler Name: Aaron Rics				Fax #:				Chic	PH (8015M)	EX					
OR LAB USE ONLY		T	MATRIX	PRES	ERV.	SAMPLI	NG	1	1	B					
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Delivered By: (Circle One)		5	Sample Conditi		ECKE	BY:	Please e				nd result	ts to pm	i@etech	env.com.	
ampler - UPS - Bus - Other:	0	-11:	I de la	-	(Initial	s)	A541	0	hlo.	ride					



March 08, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/07/22 15:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 2617 W MARLAND HOBBS NM, 88240 Fax To:

03/07/2022

Sampling Date:

03/07/2022

Reported:

03/08/2022

Sampling Type:

Soil

Project Name:

Received:

SPAU INJECTION LINE

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

Project Number:

15018

Project Location: LEGACY RESERVES

Sample ID: EW - 1 (H220886-01)

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	03/07/2022	ND	2.08	104	2.00	5.88	
Toluene*	<0.050	0.050	03/07/2022	ND	2.11	105	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/07/2022	ND	2.12	106	2.00	5.37	
Total Xylenes*	<0.150	0.150	03/07/2022	ND	6.56	109	6.00	5.52	
Total BTEX	<0.300	0.300	03/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/08/2022	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	03/07/2022	ND	207	103	200	0.603	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	67.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.5	% 59.5-14	2						

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent 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. Keine



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: Etech Environmenta	I & Safety Solut	ions	, Inc							B	IL	L TO				,		ANA	LYSI	S RE	QUE	ST	*	
Project Manager: Joel Lowry								P.0	. #:															
Address: 2617 W Marland								Cor	npa	ny		Etec	h											
City: Hobbs	State: NM	Zip:	882	240				Attr				Joel Low	ry	1										
Phone #: (575) 264-9884	Fax #:							Add	res	s:				1				1						
Project #: 15018	Project Owner	:	Leg	jacy				City	r:					1										
Project Name: SPAU Injection Line								Sta			Z	ip:			€ W	18								
Project Location: Rural Lea County, N	IM								ne :	#:		•		Chloride	TPH (8015M)	BTEX (8021B)								
Sampler Name: Joel Lowry							\neg	Fax						۱ <u>ặ</u>	ī	X					1			
FOR LAB USE ONLY					MA	TRIX	_	_		SERV	/ -	SAMPL	NG	1 ~	₽	B		1						
Lab I.D. Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		DATE	TIME											
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Appendix D Photographic Log

Photo Number:

1

Photo Direction:

South

Photo Description:

View of impacted area.



Photo Number:

2

Photo Direction:

South

Photo Description:

View of impacted area.



Photo Number:

3

Photo Direction:

Top-Down

Photo Description:



Aerial view of excavation.

Photo Number:

4

Photo Direction:

Top-Down

Photo Description:





Photo Number:

5

Photo Direction:

Southwest

Photo Description:



View of excavated area.

Photo Number:

6

Photo Direction: South

Photo Description:

View of excavated area.



Photo Number:

Photo Direction: Southeast

Photo Description:



View of excavated area.

Photo Number:

8
Photo Direction:
South
Photo Description:

View of excavated area.



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 54763

CONDITIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	54763
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Remediation Plan Approved.	8/2/2022