

CLOSURE REQUEST REPORT

East Pecos Federal Com 22 #007H
Eddy County, New Mexico
Incident Number nAPP2400434204

Prepared for: WPX Energy Permian, LLC.

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing site assessment and soil sampling activities associated with an inadvertent release of produced water at the East Pecos Federal Com 22 #007H (Site). Based on the laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA).

SITE LOCATION AND BACKGROUND

The Site is located in Unit P, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.020553°, -103.966003°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1** in **Appendix A**).

On December 29, 2023, a valve on a loadout was left slightly open, causing the release of approximately 15 barrels (bbls) of produced water into a lined tank battery containment. Approximately 1 bbl of produced water escaped the breached containment to the adjacent pad surface. Vacuum trucks were immediately dispatched and recovered approximately 14 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 4, 2024, and was subsequently assigned Incident Number nAPP2400434204.

On January 4, 2024, Etech conducted initial site assessment activities which included mapping the observed release footprint, hereafter referred to as the Area of Concern (AOC), which is shown in **Figure 2** in **Appendix A**. On January 19, 2024, Etech conducted a liner inspection following a 48-hour notice to the NMOCD and determined the integrity of the liner was compromised.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark):
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland:
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on a New Mexico Office of the State Engineer (NMOSE) approved soil boring C-04630 POD-1 (TW-1) advanced by Atkins Engineering Associates, Inc (Atkins) in June 2022, located approximately 0.5 miles west of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 55 feet bgs. No fluids were observed throughout the drilling process nor

Closure Request Report Incident Number nAPP2400434204 East Pecos Federal Com 22 #007H



after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The referenced well records are provided in **Appendix B**. The soil boring locations and regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

Upon initial desktop review, two NMOSE borings (C-04653 POD-5 and C-04653 POD-6) permitted to investigate soil impacts for multiple inadvertent releases on a neighboring pad located within 1,000 feet east of the Site, reported depth to groundwater measurements in July 2022. Groundwater was encountered at approximately 67 feet bgs whilst advancing to 72 feet bgs at both boring locations. Following the completion of drilling, the NMOSE boring C-04653 POD-5 was secured with an auger and sealed with hydrated bentonite at the surface - the boring is pending approval to convert into a monitoring well. The NMOSE boring C-04653 POD-6 was plugged and abandoned within 24-hours post of drilling completion. As such, the NMOSE boring in question have either been plugged and abandoned or are to be converted into a monitoring well for the purpose of monitoring a pre-existing contaminate plume, therefore no freshwater well lies within 1,000 feet of the Site.

All other receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B and Figure 1C** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-gasoline range organics (GRO) + TPH-diesel range organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

DELINEATION SOIL SAMPLING ACTIVITIES

On January 19, 2024, Etech conducted delineation activities to assess the presence and/or absence of impacts associated with the AOC. Seven delineation boreholes (BH01 through BH07) were advanced via hand auger within and around the AOC, including inside the identified compromised location within the lined tank battery containment. Delineation activities were directed by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each delineation soil sampling location, representing the highest observed field screening and greatest depth. Field screening results and observations for delineation soil samples were recorded on soil sampling logs, which are included as **Appendix C**. The locations of the delineation soil samples are displayed in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Appendix D**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

Closure Request Report Incident Number nAPP2400434204 East Pecos Federal Com 22 #007H



DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples indicated all concentrations of the COCs were below the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

CONFIRMATION SOIL SAMPLING ACTIVITIES

Immediately following delineation activities, Etech collected 5-point composite confirmation soil samples within the AOC representing no greater than 200 square feet (FS01 through FS03 and SW01 through SW03). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. Confirmation soil samples were handled and analyzed as previously described. The locations of the confirmation soil samples are shown in **Figure 3** in **Appendix A**. Photographic documentation during soil sampling activities is included in **Appendix D**.

CONFIRMATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples were below the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

CLOSURE REQUEST

Based on laboratory analytical results, concentrations of the COCs for all delineation and confirmation soil samples were below the Site Closure Criteria.

WPX believes the timely initial response and other completed remedial actions have mitigated impacts at the Site and meet the requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater. NFA appears warranted at this time and the Site should be respectfully considered for Closure by the NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Gilbert Moreno at (432) 305-6414 or gilbert@etechenv.com. Documentation of notifications regarding Incident Number nAPP2400434204 is presented as **Attachment G**.

Sincerely

Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist Joseph S. Hernandez Senior Managing Geologist

Closure Request Report Incident Number nAPP2400434204 East Pecos Federal Com 22 #007H



cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map - Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2: Delineation Soil Sample Locations

Figure 3: Confirmation Soil Sample Locations

Appendix B: Referenced Well Records

Appendix C: Soil Sampling Logs **Appendix D**: Photographic Log

Appendix E: Tables

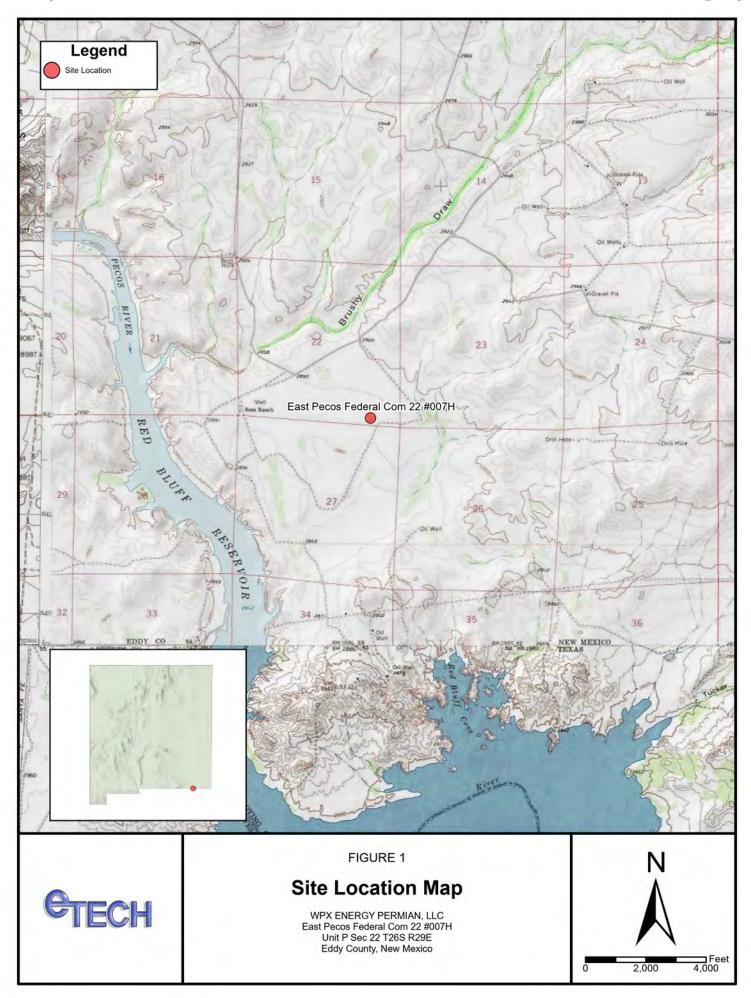
Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation

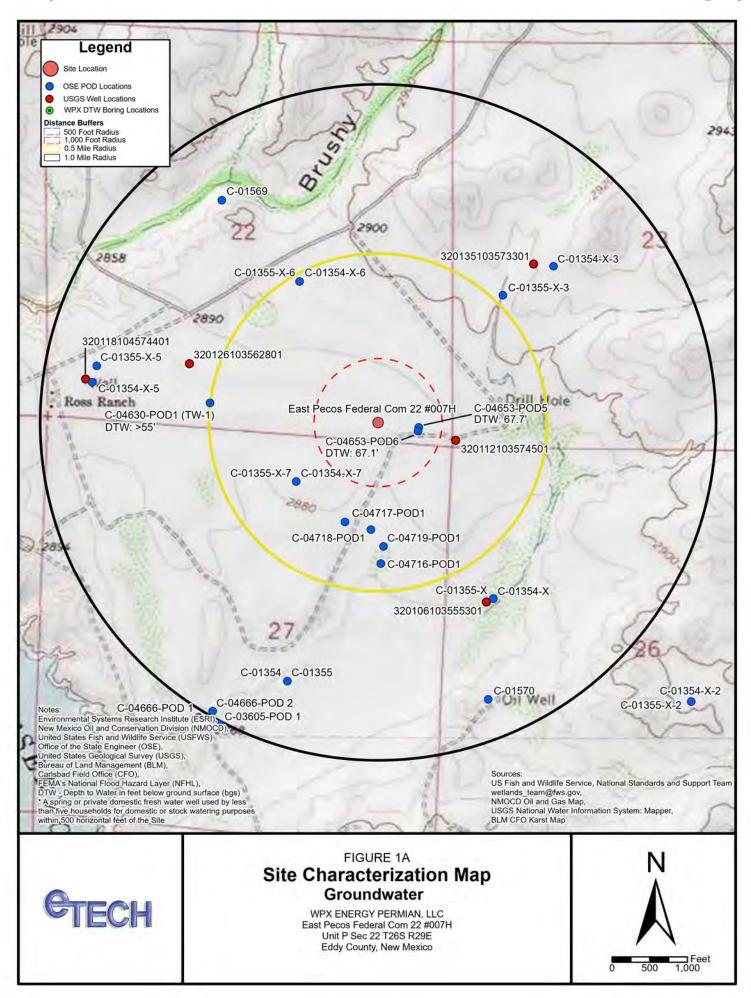
Appendix G: Notifications

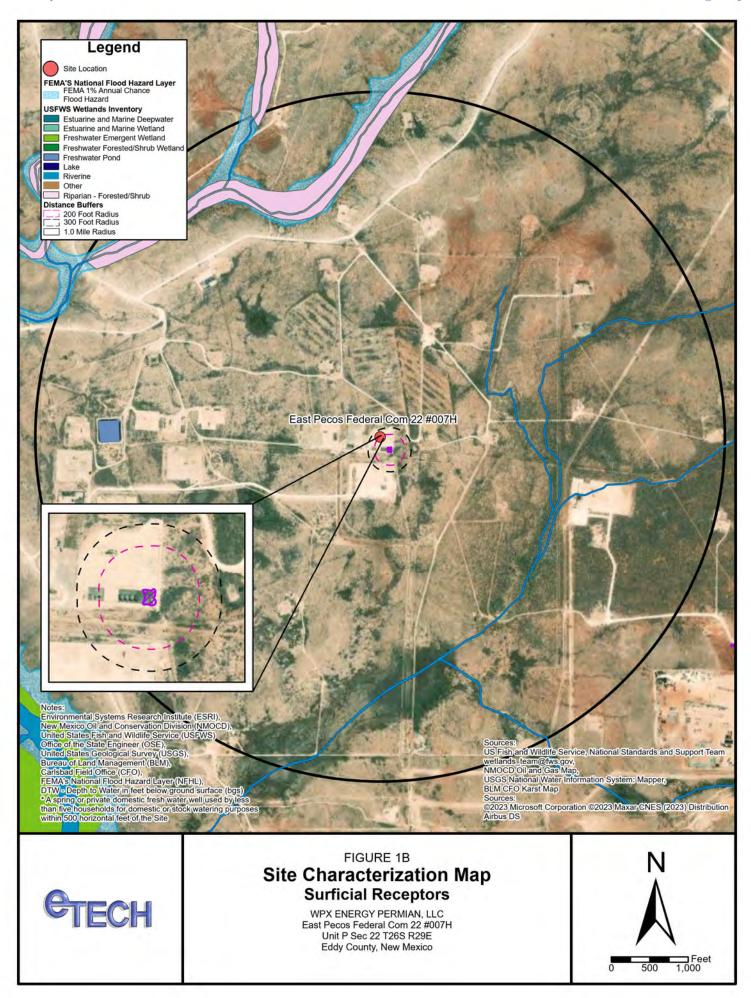
APPENDIX A

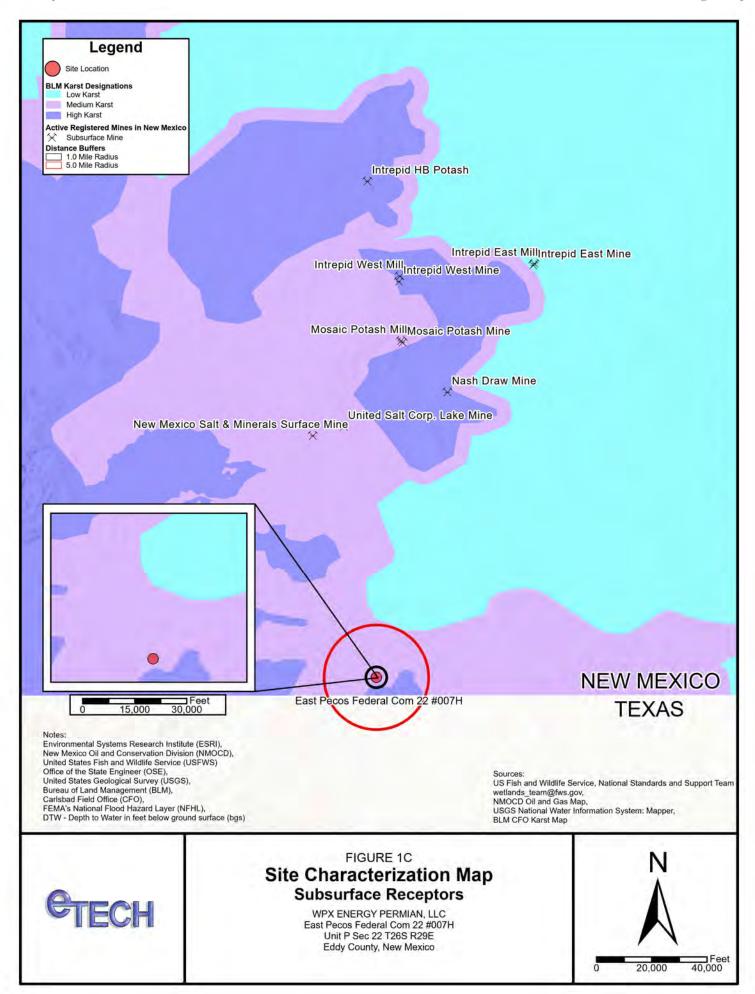
Figures

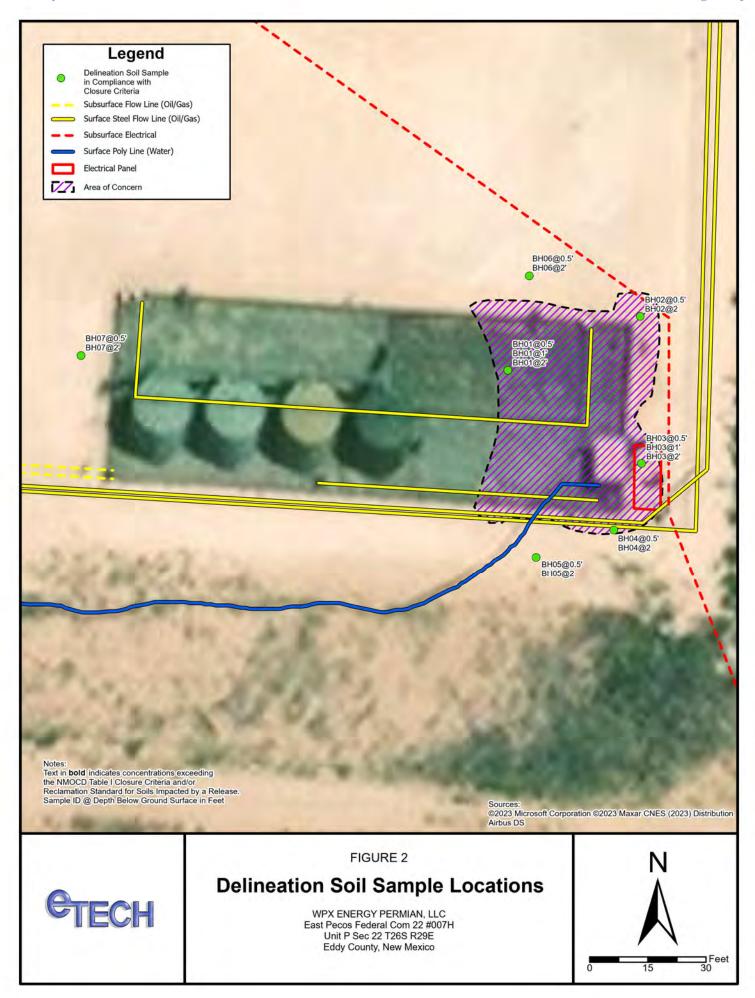


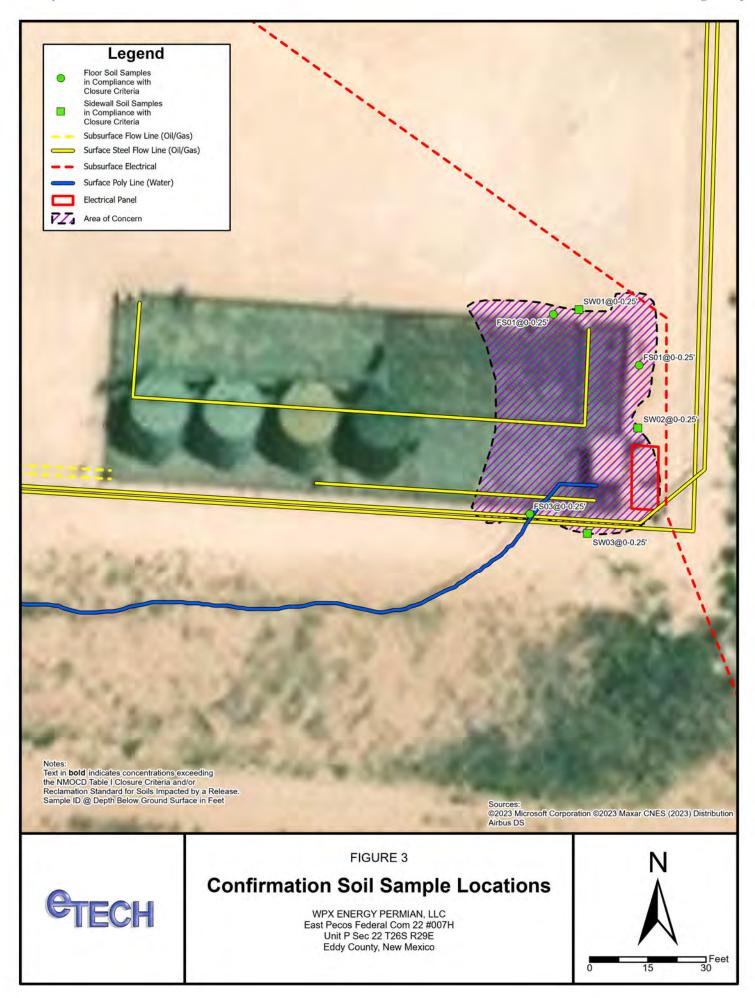












APPENDIX B

Referenced Well Records





NO	OSE POD NO. (POD 1 (TW		.)		WELL TAG ID N N/A	0.		OSE FILE NO(S).					
GENERAL AND WELL LOCATION	WELL OWNER Devon Energ							PHONE (OPTIO 575-748-183						
	WELL OWNER 6488 7 Rive		ADDRESS					CITY Artesia		ST. NN	ATE M 88210	ZIP		
	WELL LOCATION (FROM GPS)	Lit	TITUDE	GREES MINUTES SECONDS 17.32 N 103 58 30.17 W			* ACCURACY		ONE TENTH O	F A SECOND				
1. GENE		RELATIN	NGITUDE NG WELL LOCATION TO T26S R29S NMPM	77				SS (SECTION, TO	WNSHJIP, RA	NGE) WHERE	AVAILABLE			
	LICENSE NO.		NAME OF LICENSED	DRILLER	Jackie D. Atkir	ıs			P. 244 A. 444 To. 9		NG COMPANY ering Associates,	Inc.		
	DRILLING STARTED DRILLING ENDED 6/15/2022 6/15/2022							LE DEPTH (FT) ±55	DEPTH WA	ATER FIRST E	ncountered (FI n/a)		
z	COMPLETED WELL IS: ARTESIAN ORY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL IN COM													
OTTA	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:													
NW.	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger CHECK HERE IF PITLESS ADAPTER IS INSTALLED													
SING INFO	DEPTH (feet bgl) FROM TO DIAM (inches)		(include each casing string, and		ASING NECTION TYPE	11 10 10 10 10 10 10 10 10 10 10 10 10 1		CASING WALL THICKNESS (inches)	SLOT SIZE (inches)					
& CA	0	55	±6.5	note	Boring-HSA		(add coup	ling diameter)	-		-			
2. DRILLING & CASING INFORMATION														
1	DEPTH (f		BORE HOLE DIAM. (inches)	100	IST ANNULAR AVEL PACK SIZ					OUNT ic feet)	METHO PLACE			
3. ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GK.	AVEL FACK SIZ	E-RANGE	BT INTE	ERVAL	(cut	ic reet)				
FILI	OSE INTERNE NO.	(-0	1620	22	3. A	10. P	0D (WR-2	NO. 7	CORD & LO	1	28/2022) E 1 OF 2		

	DEPTH (1	eet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	14	14	Sand, Fine-grained, poorly graded,unconsolidated, with Caliche, 7.5 YR 7/6	6, Re Y ✓N	
	14	34	20	Caliche, Broken with fine-grained sand, 7.5 YR 7/6, Reddish Yellow	Y ✓N	
	34	39	5	Sand, Fine-grained, poorly graded, 5 YR 5/6, Reddish Yellow	Y √N	
	39	49	10	Sand, Fine-grained, poorly graded, unconsolidated, with clay, 7.5 YR 7/6, R	eddi Y ✓N	
	49	55	6	Clay, Stiff, with fine-grained sand, 5 YR 5/6, Reddish Yellow	Y √N	
1					Y N	
4. HYDROGEOLOGIC LOG OF WELL			100		Y N	
OF					Y N	
90					Y N	
ICL					Y N	
507					Y N	
EOI					Y N	
ROG					Y N	
IXD					Y N	
4					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD U	SED TO E	STIMATE YIELI	O OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUMI	· 🗆	AIR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	0.00
NC	WELL TES	TEST STAF	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	UDING DISCHARGE	METHOD, OD.
TEST; RIG SUPERVISION	MISCELLAI	NEOUS IN	FORMATION: T	emporary well material removed and soil boring backfilled using dril elow ground surface(bgs), then hydrated bentonite chips ten feet bgs	l cuttings from total d to surface.	epth to ten feet
5. TEST	PRINT NAM			RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION OTHER TI	HAN LICENSEE:
SIGNATURE	CORRECT I	RECORD (ERMIT HO	OF THE ABOVE	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELII DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RI 30 DAYS AFTER COMPLETION OF WELL DRILLING:	EF, THE FOREGOING ECORD WITH THE ST	IS A TRUE AND ATE ENGINEER
6. SIGN	Jack A	tkins		Jackie D. Atkins	7/15/2022	
1		SIGNA	TURE OF DRILL	ER / PRINT SIGNEE NAME	DATE	
FO	OCE DITER	NAT HEE		WD 46 WELL	PECOPD & LOG OV-	reion 01/29/2022
	E NO.	- U	e30	POD NO. (-OD) TRN NO.	T7699	rsion 01/28/2022)
	CATION	21	5 709	27 3.U-3 WELL TAGIDNO	100	PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	W-2) VER NAME(S				PHONE (OPTIO	ONAL)					
Stephens	& Johnson	Operating Co.									
PO BOX	NER MAILING 2249	GADDRESS			CITY Wichita Fall	s	TX 7307-22	ZIP 49			
WELI				ONDS 1.42 N	* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND				
(FROM C	PS)	TITUDE NGITUDE	103 57 52	2.42 W	* DATUM REC	QUIRED: WGS 84					
		NG WELL LOCATION TO 26S R29E, NMPM	STREET ADDRESS AND COMMON LAND	MARKS – PLSS	S (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVAILABLE				
LICENSE N		NAME OF LICENSED				NAME OF WELL DRI					
	49		Jackie D. Atkins				ineering Associates, I				
DRILLING 7/26	STARTED 2022	DRILLING ENDED 7/26/2022	DEPTH OF COMPLETED WELL (FT) Soil Boring		E DEPTH (FT) :72	DEPTH WATER FIRS	T ENCOUNTERED (FT) ±67				
COMPLET	ED WELL IS:	ARTESIAN	DRY HOLE SHALLOW (UNC	CONFINED)		WATER LEVEL PLETED WELL 67	.7 DATE STATIC	111111111111111111111111111111111111111			
DRILLING	FLUID:	AIR	MUD ADDITIVES – SP	ECIFY:	(4.1)						
DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER-SPECIFY: Hollow Stem Auger CHECK HERE IF PITLESS ADAPTER IS INSTALLED											
DEPTI	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR		SING	CASING	CASING WALL	SLOT			
FROM TO DIAM (inches)		DIAM	GRADE (include each casing string, and note sections of screen)	CONN	ECTION YPE ing diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches			
0	72	±6.5	Soil Boring	(-			-			
	-	-									
		BORE HOLE	LIST ANNULAR SEAL M	ATERIAL A	ND	AMOUNT	метно	D OF			
DEPTH	(feet bgl)			DAZAT	(cubic feet)	PLACEN					
DEPTH FROM	(feet bgl)	DIAM. (inches)	GRAVEL PACK SIZE-RANG	E BY INTER	KVAL						
			GRAVEL PACK SIZE-RANG	E BY INTE	KVAL						
			GRAVEL PACK SIZE-RANG	E BY INTE	KVAL						
			GRAVEL PACK SIZE-RANG	GE BY INTER	KVAL						
			GRAVEL PACK SIZE-RANG	GE BY INTER	KVAL						
			GRAVEL PACK SIZE-RANG	E BY INTE	KVAL						
FROM		DIAM. (inches)	GRAVEL PACK SIZE-RANG	E BY INTE		0 WELL RECORD &	b LOG (Varsion 01/2	8/2022\			

	DEPTH (f	eet bgl)		COLOR AN	ND TVDE OF M	ATEDIAL EN	COUNTERED -		TED	ESTIMATED	
	FROM	то	THICKNESS (feet)	INCLUDE WATE	ER-BEARING	CAVITIES OR	FRACTURE ZONES	BEA	ATER RING? S/NO)	YIELD FOR WATER- BEARING ZONES (gpm)	
	0	25	25	Sand, medium/f	Y	✓ N					
П	25	45	20	Sand, medium/fine	grained, poorly g	graded, with gr	ravel (0.25"), Tan Brov	vn Y	√ N		
	45	64	19	Sand, med	lium/fine graine	d, poorly grade	ed, Tan Brown	Y	√ N		
	64	70	6	Clay, Medium Plasti	Clay, Medium Plastic, with sand and caliche, gypsum Reddish Brown, moist						
4. HYDROGEOLOGIC LOG OF WELL	70	72	62	Sand, medium/fine gra	ained, poorly gra	aded, with grav	vel (0.2575"), Tan Br	own ✓ Y	N		
								Y	N		
				5				Y	N		
OF								Y	N		
00								Y	N		
101		THE						Y	N		
200								Y	N		
EO		-						Y	N		
ROC								Y	N		
HAD								Y	N		
4								Y	N		
								Y	N		
								Y	N		
								Y	N		
								Y	N		
								Y	N		
								Y	N		
	METHOD U			OF WATER-BEARIN	NG STRATA: THER – SPECII	FY:		TOTAL EST		0.00	
7	WELL TEST	TEST	RESULTS - ATT	TACH A COPY OF DATE	TA COLLECTE	D DURING V					
5. TEST; RIG SUPERVISION	MISCELLA		FORMATION: S	ecured soil boring wit pproval from New Mo	th auger and h	ydrated bento	onite, to seal the bori	ng to the gro	und surfa		
S. TEST	3,500		RILL RIG SUPE	RVISOR(S) THAT PRO	OVIDED ONSIT	E SUPERVIS	ION OF WELL CONS	TRUCTION	OTHER TH	IAN LICENSEE	
6. SIGNATURE	CORRECT F	ECORD C	F THE ABOVE	FIES THAT, TO THE F DESCRIBED HOLE AN 30 DAYS AFTER COM	ND THAT HE	OR SHE WILL WELL DRILL	FILE THIS WELL R	ECORD WIT			
6. S	0	2016	TURE OF DRILL	ER / PRINT SIGNEE					DATE		
FOI	R OSE INTERI	NAL USE					WR-20 WEL	L RECORD &	LOG (Ve	rsion 01/28/2022	
	ENO. C-L	+65	3	4	POD NO.	5	TRN NO.	720	1201	2	
	CATION)	100	JUE 2	7 444			WELL TAG ID NO.			PAGE 2 OF 2	



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

July 8, 2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4653 Pod-5-6

To whom it may concern:

Attached please find a well log & record for C-4653 POD-5-6, and Plugging Record for C-4653 POD-6., in duplicate. C-4653 POD 1-4, will not be used, please note that these can be canceled.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grow Middle

CSEDT/ 9UG 18 2V27 #G/57



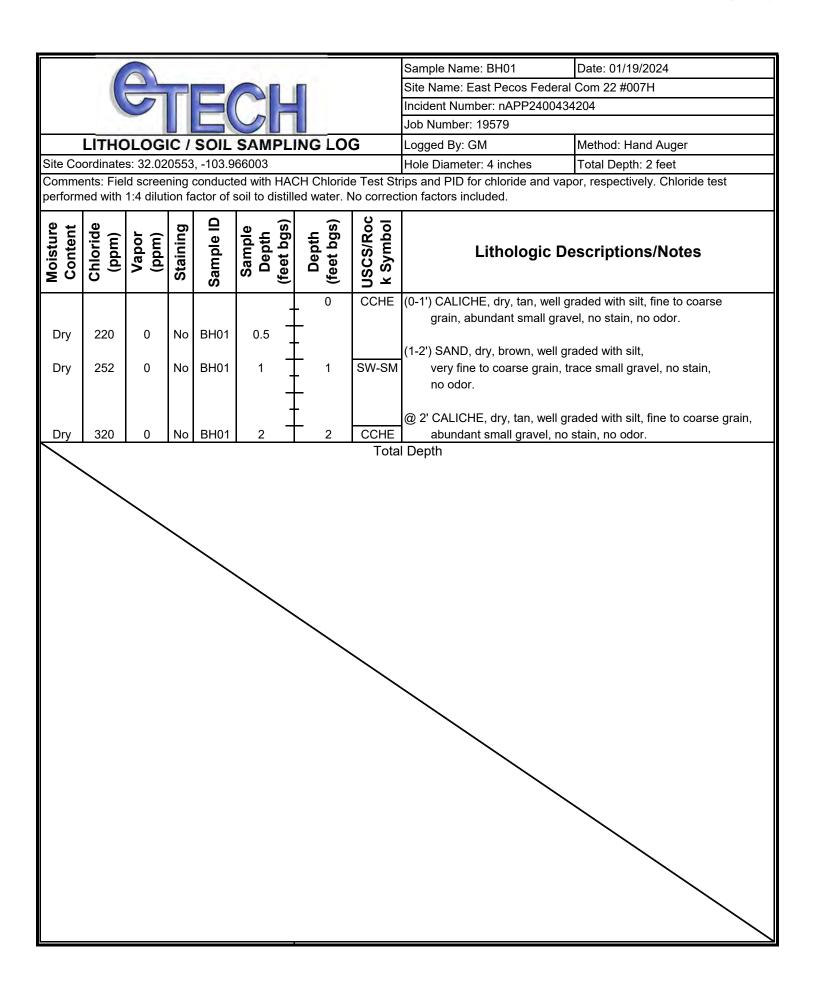
ATIO	POD-6 (TW-1 WELL OWNER N	AME(S)			n/a			PHONE (OPTIONAL)					
COC	Stephens & Jo												
WELL	PO BOX 2249		ADDRESS					Wichita Fall	s	TX 7307-2	ZIP 2249		
GENERAL AND WELL LOCATION	WELL LOCATION	LAT	DE	GREES MINUTES SECONDS 32 1 13.71 N			* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND				
ERA	(FROM GPS)		NGITUDE	103	57	52.	14 W	DATUM REC	QUIRED: WGS 84				
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE SE SE SE Sec. 22 T26S R29E, NMPM												
	LICENSE NO.		NAME OF LICENSED		AV2 NAS				NAME OF WELL DR		20.7		
	1249				ckie D. Atkin			92273		gineering Associates			
	7/25/202		7/25/2022		PLETED WELL (I oil Boring	FT)		LE DEPTH (FT) ±74	DEPTH WATER FIR	ST ENCOUNTERED (F ±67	T)		
CASING INFORMATION	COMPLETED WI	ELL IS:	ARTESIAN	DRY HOLE	DRY HOLE SHALLOW (UNCONFINED) STATIC				WATER LEVEL PLETED WELL 6	7 1	IC MEASURED		
	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger INSTALLED												
SING INFO	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		g, and	CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
CAS	0	74	±6.5		Soil Boring	1)	(add coup	ling diameter)		-	-		
2. DRILLING &											1, 17		
MLL		_											
2. DI													
											l i sanci		
_	DEPTH (fee		BORE HOLE DIAM. (inches)		T ANNULAR S EL PACK SIZI				AMOUNT (cubic feet)		IOD OF EMENT		
ANNULAR MATERIAL	FROM	ТО	Dirtin. (menes)	GRAV	EL PACK SIZI	2-KANOI	BI INII	ERVAL	(cubic feet)	TERES	LIVILIA VI		
MAT													
AR													
INN		-											
3. A													
								1 /			0.00		
FOR	OSE INTERNA	L USE			POD N				NO. TOG	& LOG (Version 01	/28/2022)		

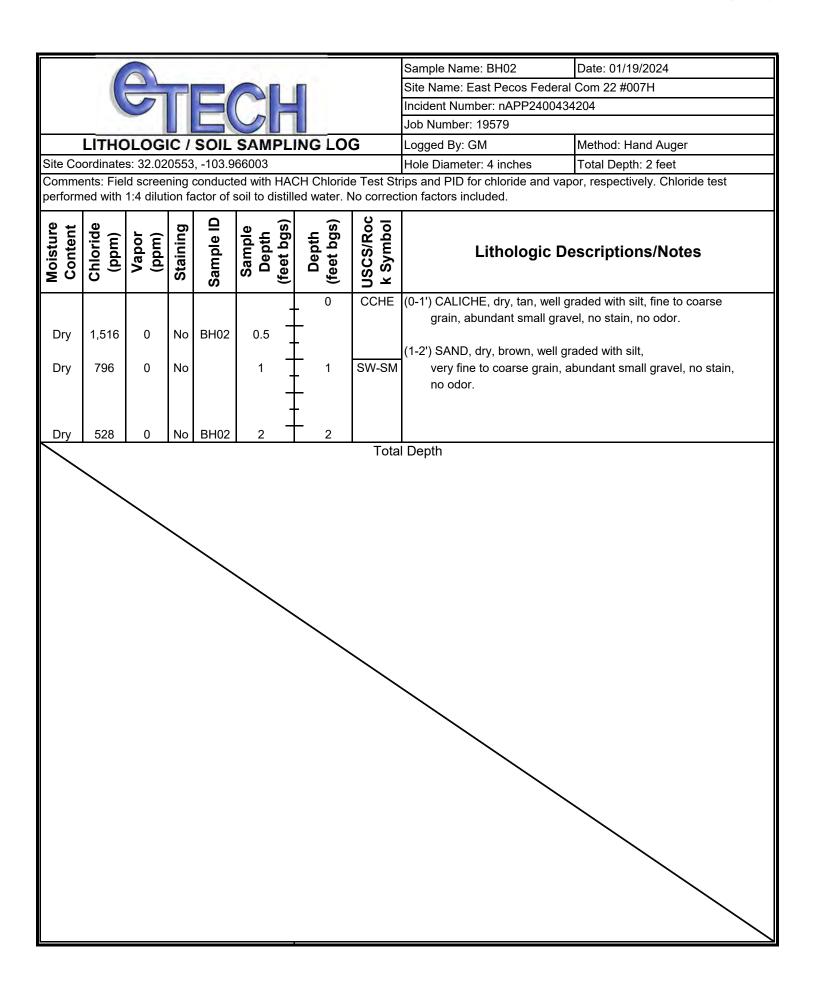
	DEPTH (f	feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTER	PED	nu men	ESTIMATED
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTER INCLUDE WATER-BEARING CAVITIES OR FRACTUR (attach supplemental sheets to fully describe all u	RE ZONES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	14	14	Clay, Medium Plastic, with sand and caliche, Brow	Y /N		
	14	30	16	Sand, medium/fine grained, poorly graded, increasing cl	Y ✓N		
	30	44	14	Clay, Medium Plastic, with sand and calchie, gypsum Rede	dish Brown	Y VN	
	44	54	10	Sand, medium/fine grained, poorly graded, with clay,	Y VN		
	54	60	6	Clay, Stiff, Medium Plastic, with brown sand Reddish	Y /N		
1	60	64	4	Clay, Stiff, Medium Plastic, with cemented sand, Reddis	h Brown	Y /N	
HYDROGEOLOGIC LOG OF WELL	64	74	10	Clay, Low Plastic, with sand and caliche, gypsum Reddish	Brown, wet	✓Y N	
OF V						Y N	
90						Y N	
CL						Y N	
DO.			1			Y N	
EOL						Y N	
903						YN	
YDE		-	1			YN	
4. H						YN	
						YN	
			-			1	
						Y N	
						Y N	
						Y N	
					1	Y N	
	METHOD U	- <u> </u>		OF WATER-BEARING STRATA: BAILER OTHER - SPECIFY:		TAL ESTIMATED ELL YIELD (gpm):	0.00
z	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TES' IE, AND A TABLE SHOWING DISCHARGE AND DRAWD			
VISION	AGGGETT				- 0.17 - 0.17 - 2 10	A Cabel a page 1	
TEST; RIG SUPERV	MISCELLA	NEOUS IN	per	outed from total depth to surface using augers as tremie P 94 lb. sack)	lugged using	Type I/II neat ceme	nt (5.2 gallons
ES	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W	ELL CONSTR	UCTION OTHER TH	AN LICENSEE:
5.7	B1000000000000000000000000000000000000		eron Pruitt, Lucas				
SIGNATURE	CORRECT I	RECORD C	OF THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE A ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THI DID DAYS AFTER COMPLETION OF WELL DRILLING:	AND BELIEF, S WELL RECO	THE FOREGOING IS DRD WITH THE STA	S A TRUE AND TE ENGINEER
6. SIGN	Jack Ar	kins		Jackie D. Atkins		8/18/2022	
_		SIGNAT	TURE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
	R OSE INTER	NAL USE	2	/	E	ECORD & LOG (Ver	sion 01/28/2022)
	ENO. C-	465	2000	POD NO. 6	RN NO.	141202	la con a series
LO	CATION 2	65.	14E 2	2 444 WELL TA	G ID NO.		PAGE 2 OF 2

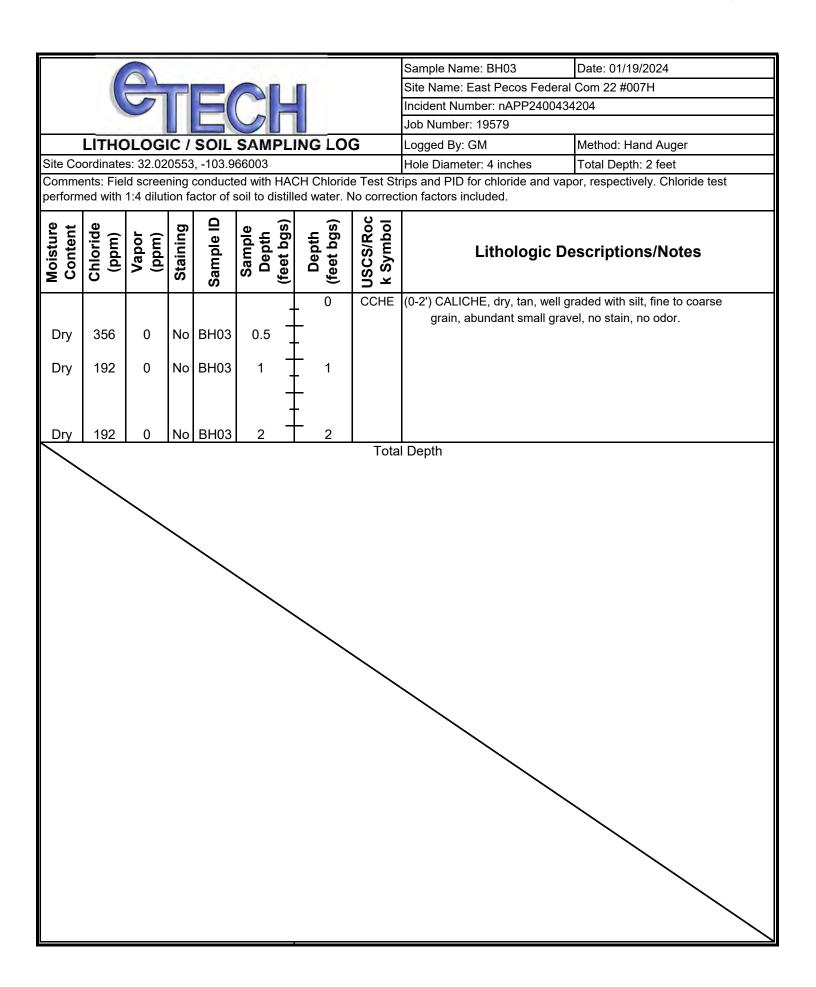
APPENDIX C

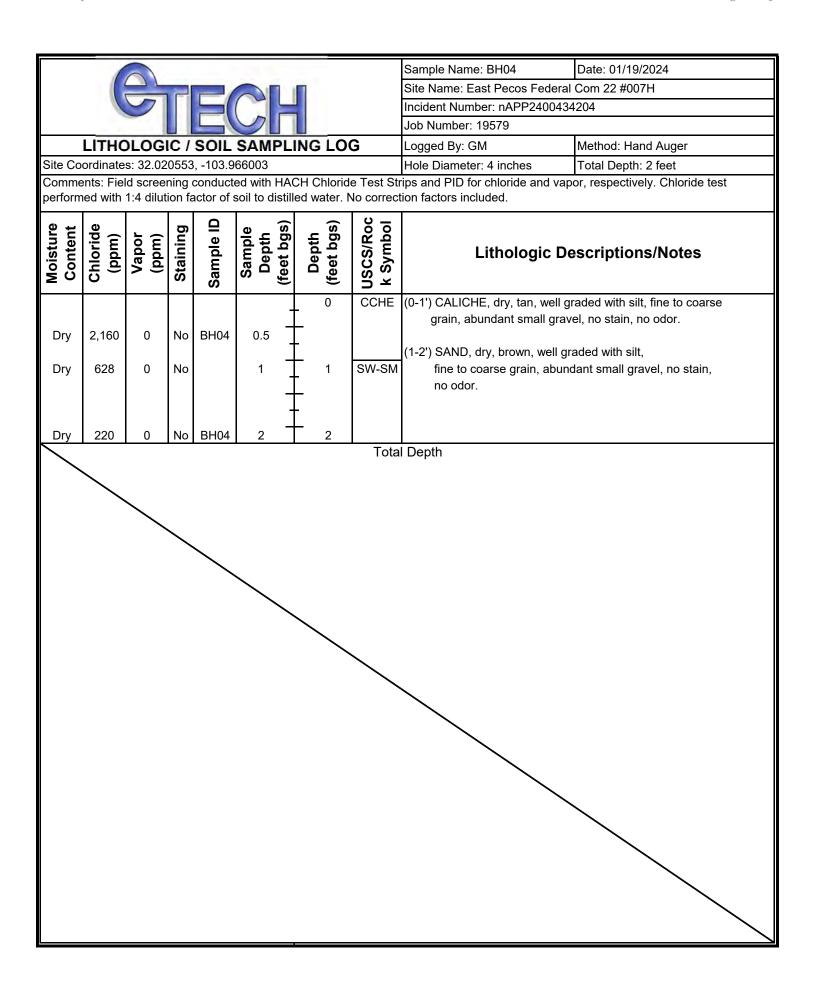
Soil Sampling Logs

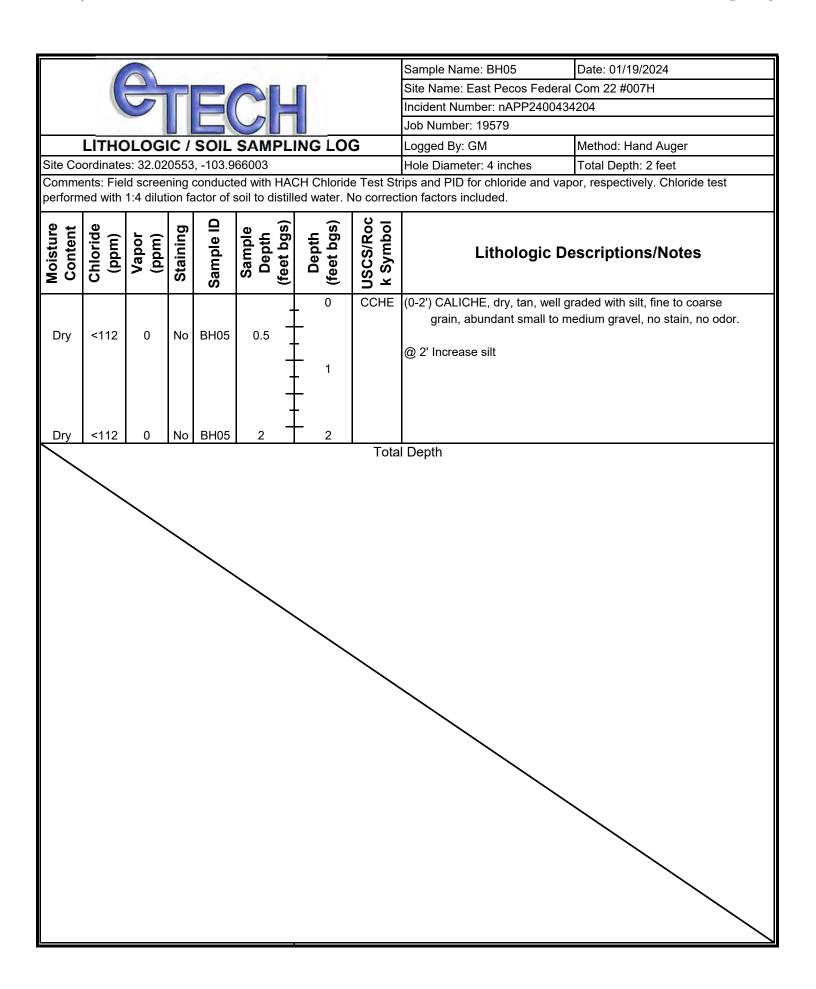


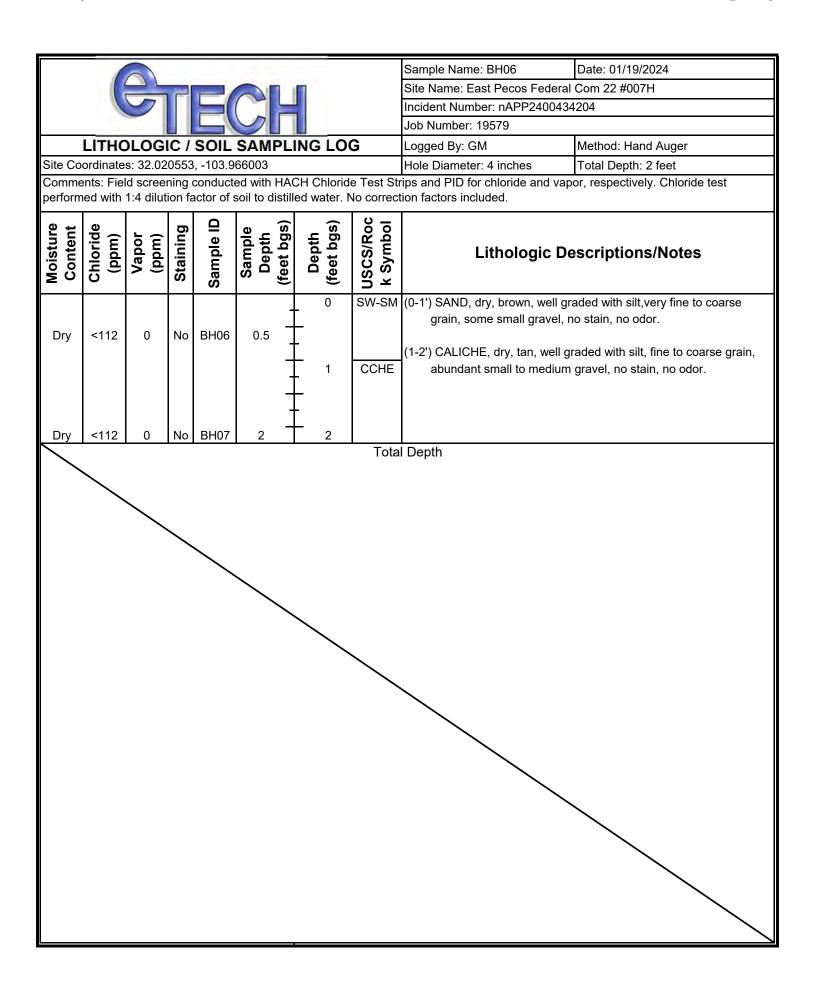


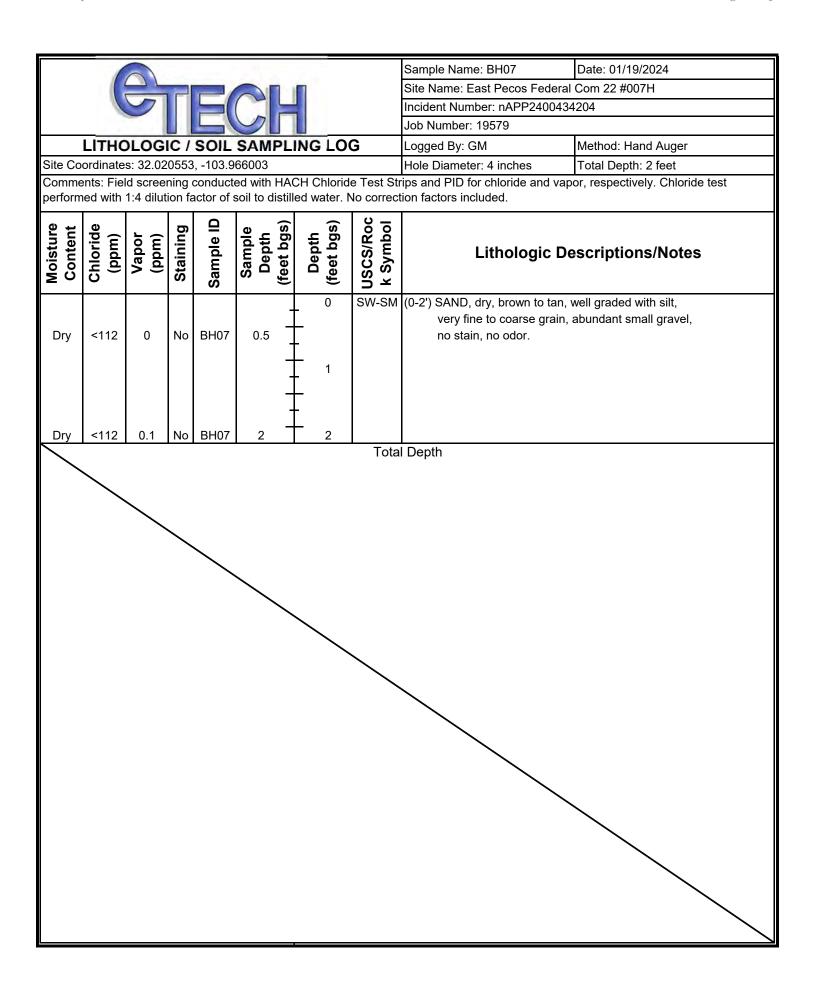












APPENDIX D

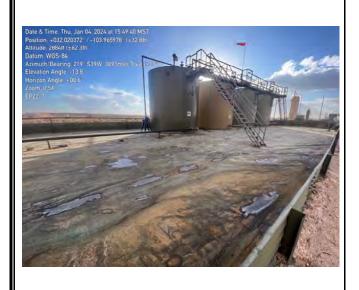
Photographic Log





PHOTOGRAPHIC LOG

WPX Energy Permian, LLC East Pecos Federal Com 22 #007H Incident Number nAPP2400434204



Photograph 1 Date: 01/04/2024 Description: Northeastern view during initial site assessment.



Photograph 3 Date: 01/19/2024 Description: Northeastern view during liner inspection.



Photograph 2 Date: 01/04/2024 Description: Northeastern view during initial site assessment.



Photograph 4 Date: 01/19/2024 Description: Pinhole located during liner inspection.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC East Pecos Federal Com 22 #007H Incident Number nAPP2400434204



Date & Time. Fr. Jan 19, 2024 at 14,15.95 MST
Position. 4032 020346 / -103.966313* (±22.8ft)
Altitude; 2888t (±9.8ft)
Datum WGS-84
Azimuth/Bearing D65 M65E. 1156mits Trup (±12*)
Elevation. Angle: -02.2
Horizon Angle: -02.6
Zoom 0.59,
ep. 22-7 BHIV7.

Photograph 5 Date:01/19/2024
Description: Northwestern view during

delineation activities under located pinhole.

Photograph 6 Date: 01/19/2024

Description: Northeastern view during delineation activities.





Photograph 7 Date: 01/19/2024
Description: Southeastern view during delineation activities.

Photograph 8 Date: 01/19/2024 Description: Southwestern view of liner restoration.

APPENDIX E

Table





Table 1 SOIL SAMPLE ANALYTICAL RESULTS **WPX Energy Permian, LLC** East Pecos Federal Com 22 #007H **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
		, , ,	, , ,	, , ,	, , ,	, , , ,	, , ,			
NMOCD Table I Closus Release (NMAC 19.15.2		ils Impacted by a	10	50	NE	NE	NE	1,000	2,500	10,000
				Delineation So	il Samples - Incident I	Number nAPP2400434	204			
BH01	01/19/2024	0.5	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	227
BH01	01/19/2024	1	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	378
BH01	01/19/2024	2	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	356
BH02	01/19/2024	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	1,870
BH02	01/19/2024	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	148
BH03	01/19/2024	0.5	<0.00199	<0.00199	<50.4	<50.4	<50.4	<50.4	<50.4	442
BH03	01/19/2024	1	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	254
BH03	01/19/2024	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	10.8
BH04	01/19/2024	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	4,010
BH04	01/19/2024	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	328
BH05	01/19/2024	0.5	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	152
BH05	01/19/2024	2	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	120
BH06	01/19/2024	0.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	15.5
BH06	01/19/2024	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	13.8
BH07	01/19/2024	0.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	64.7
BH07	01/19/2024	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	40.7
Dilor	31/10/2024	-	30.00200		oil Samples - Incident			1 -40.0	>40.0	70.1
FS01	01/19/2024	0-0.25	<0.00201	<0.00402	<49.8	62.5	<49.8	62.5	62.5	3,430
FS02	01/19/2024	0-0.25	<0.00198	<0.00396	<50.1	794	<50.1	794	794	1,190
FS03	01/19/2024	0-0.25	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	4,360
SW01	01/19/2024	0-0.25	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	500
SW02	01/19/2024	0-0.25	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	497
SW03	01/19/2024	0-0.25	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	416

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes ORO: Oil Range Organics

GRO: Gasoline Range Organics TPH: Total Petroleum Hydrocarbon DRO: Diesel Range Organics NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

Concentrations in bold exceed the NIMOCD Table I Closure Criteria and/or Reclamation Standard† for Soils Impacted by a Release †The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/1/2024 12:45:43 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6003-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/1/2024 12:45:43 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 20

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6003-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

3

6

8

9

11

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-6003-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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**

Detection Limit (DoD/DOE) DΙ

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)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Job ID: 890-6003-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Job ID: 890-6003-1 Eurofins Carlsbad

Job Narrative 890-6003-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/22/2024 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BH01 (890-6003-1).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-71764 recovered under the lower control limit for Benzene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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: The surrogate recovery for the blank associated with preparation batch 880-71509 and analytical batch 880-71993 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-71509 and analytical batch 880-71993 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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.

Eurofins Carlsbad

А

5

7

8

4.0

4.6

13

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1

SDG: Eddy County NM

Client Sample ID: BH01

Lab Sample ID: 890-6003-1 Date Collected: 01/19/24 09:30 Date Received: 01/22/24 08:00

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/26/24 11:23	01/29/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				01/26/24 11:23	01/29/24 05:10	1
1,4-Difluorobenzene (Surr)	78		70 - 130				01/26/24 11:23	01/29/24 05:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDI	Unit	D	Duamanad		
					•		Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg	_ =	Prepared	Analyzed 01/31/24 18:45	
•			50.3				Prepared		
: Method: SW846 8015B NM - Dies	sel Range Orga		50.3	MDL	mg/Kg		Prepared		1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	50.3 (GC)		mg/Kg		<u> </u>	01/31/24 18:45	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	50.3 (GC)		mg/Kg		Prepared	01/31/24 18:45 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.3	nics (DRO) Qualifier U	50.3 (GC) RL 50.3		mg/Kg Unit mg/Kg		Prepared 01/24/24 10:27	01/31/24 18:45 Analyzed 01/31/24 18:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.3	nics (DRO) Qualifier U U	50.3 (GC) RL 50.3 50.3		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/24/24 10:27 01/24/24 10:27	01/31/24 18:45 Analyzed 01/31/24 18:45 01/31/24 18:45	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.3 <50.3	nics (DRO) Qualifier U U	50.3 (GC) RL 50.3 50.3 50.3		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27	O1/31/24 18:45 Analyzed O1/31/24 18:45 O1/31/24 18:45 O1/31/24 18:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	nics (DRO) Qualifier U U	50.3 (GC) RL 50.3 50.3 50.3 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared	O1/31/24 18:45 Analyzed O1/31/24 18:45 O1/31/24 18:45 O1/31/24 18:45 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <50.3	U Qualifier U Qualifier	50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	Analyzed 01/31/24 18:45 Analyzed 01/31/24 18:45 01/31/24 18:45 Analyzed 01/31/24 18:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga Result	U Qualifier U Qualifier	50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	Analyzed 01/31/24 18:45 Analyzed 01/31/24 18:45 01/31/24 18:45 Analyzed 01/31/24 18:45	Dil Fac

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-6003-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-38523-A-1-A MS	Matrix Spike	109	106	
880-38523-A-1-B MSD	Matrix Spike Duplicate	108	99	
890-6003-1	BH01	79	78	
LCS 880-71690/1-A	Lab Control Sample	101	96	
LCSD 880-71690/2-A	Lab Control Sample Dup	107	99	
MB 880-71690/5-A	Method Blank	76	79	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5992-A-1-E MS	Matrix Spike	125	85
890-5992-A-1-F MSD	Matrix Spike Duplicate	123	84
890-6003-1	BH01	123	96
LCS 880-71509/2-A	Lab Control Sample	95	80
LCSD 880-71509/3-A	Lab Control Sample Dup	102	95
MB 880-71509/1-A	Method Blank	140 S1+	113

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Job ID: 890-6003-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71690/5-A

Analysis Batch: 71764

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71690

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/28/24 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/28/24 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/28/24 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/26/24 11:23	01/28/24 23:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/26/24 11:23	01/28/24 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/26/24 11:23	01/28/24 23:01	1

мв мв

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepa	red An	alyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	70 - 130	01/26/24	11:23 01/28	2/24 23:01	1
1,4-Difluorobenzene (Surr)	79	70 ₋ 130	01/26/24	11:23 01/28	/24 23:01	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-71690/1-A

Matrix: Solid

Analysis Batch: 71764

Prep Type: Total/NA

Prep Batch: 71690

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09301		mg/Kg		93	70 - 130	
Toluene	0.100	0.09535		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.1961		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.1177		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-71690/2-A

Matrix: Solid

Analysis Batch: 71764

Prep Type: Total/NA

Prep Batch: 71690

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09511		mg/Kg		95	70 - 130	2	35
Toluene	0.100	0.1015		mg/Kg		101	70 - 130	6	35
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2236		mg/Kg		112	70 - 130	13	35
o-Xylene	0.100	0.1174		mg/Kg		117	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 880-38523-A-1-A MS

Matrix: Solid

Analysis Batch: 71764

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71690

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.09197		mg/Kg		92	70 - 130	
Toluene	<0.00201	U	0.0996	0.09604		mg/Kg		96	70 - 130	

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1

SDG: Eddy County NM

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

Lab Sample ID: 880-38523-A-1-A MS

Lab Sample ID: 880-38523-A-1-B MSD

Matrix: Solid

Analysis Batch: 71764

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71690

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0996	0.1030		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2081		mg/Kg		104	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.1053		mg/Kg		105	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

112

Prep Type: Total/NA

Prep Batch: 71690

5

Matrix: Solid Analysis Batch: 71764

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte Added Result Qualifier Unit Limits Benzene <0.00201 U 0.0990 0.09055 mg/Kg 91 70 - 130 2 35 Toluene <0.00201 U 0.0990 0.1004 mg/Kg 101 70 - 130 4 35 Ethylbenzene <0.00201 U 0.0990 0.1148 mg/Kg 116 70 - 130 11 35 0.198 35 m-Xylene & p-Xylene <0.00402 U 0.2240 mg/Kg 113 70 - 130

0.1109

mg/Kg

0.0990

MSD MSD

<0.00201 U

		_	
Surrogate	%Recovery Qu	alifier Limits	
4-Bromofluorobenzene (Surr)	108	70 - 130	_
1,4-Difluorobenzene (Surr)	99	70 - 130	

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

Lab Sample ID: MB 880-71509/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 71993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71509

	IIID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/24 10:27	01/31/24 08:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/24 10:27	01/31/24 08:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/24 10:27	01/31/24 08:11	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	01/24/24 10:27	01/31/24 08:11	1
o-Terphenyl	113		70 - 130	01/24/24 10:27	01/31/24 08:11	1

Lab Sample ID: LCS 880-71509/2-A

Matrix: Solid

C10-C28)

Analysis Batch: 71993

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 71509

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit %Rec Limits 1000 110 70 - 130 Gasoline Range Organics 1097 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 985.1 mg/Kg 99 70 - 130

Job ID: 890-6003-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: LCS 880-71509/2-A

LCS LCS

Matrix: Solid

Analysis Batch: 71993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71509

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 95 70 - 130 o-Terphenyl 80 70 - 130

Lab Sample ID: LCSD 880-71509/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 71993

Prep Type: Total/NA

Prep Batch: 71509

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1063 106 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 95 945.1 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 102 70 - 130 1-Chlorooctane 95 70 - 130 o-Terphenyl

Lab Sample ID: 890-5992-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 71993

Prep Type: Total/NA

Prep Batch: 71509

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.6 U 1010 996.3 mg/Kg 97 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 1010 1288 mg/Kg 125 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 125 70 - 130 o-Terphenyl 85

Lab Sample ID: 890-5992-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 71993

Matrix: Solid

Prep Type: Total/NA Prep Batch: 71509

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 1010 984.8 Gasoline Range Organics <49.6 mg/Kg 96 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 1010 1282 mg/Kg 125 70 - 130 20

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

MSD MSD %Recovery Qualifier Limits 123 70 - 130

84

Eurofins Carlsbad

70 - 130

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1

SDG: Eddy County NM

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A

Matrix: Solid

Analysis Batch: 71737

Prep Type: Soluble мв мв

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/29/24 01:55

Lab Sample ID: LCS 880-71577/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.5 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71577/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 272.7 mg/Kg 109 90 - 110

Lab Sample ID: 890-6002-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 416 249 678.6 105 90 - 110 mg/Kg

Lab Sample ID: 890-6002-A-3-D MSD

Matrix: Solid

Analysis Batch: 71737

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 416 680.3 mg/Kg 106 90 - 110 0 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Total/NA	Solid	5035	
MB 880-71690/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71690/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71690/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38523-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-38523-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Total/NA	Solid	8021B	71690
MB 880-71690/5-A	Method Blank	Total/NA	Solid	8021B	71690
LCS 880-71690/1-A	Lab Control Sample	Total/NA	Solid	8021B	71690
LCSD 880-71690/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71690
880-38523-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	71690
880-38523-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71690

Analysis Batch: 71826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71509

Lab Sample ID 890-6003-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5992-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5992-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Total/NA	Solid	8015B NM	71509
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015B NM	71509
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71509
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71509
890-5992-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	71509
890-5992-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71509

Analysis Batch: 72147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1 SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 71577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6003-1	BH01	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	71577
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71577

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Lab Chronicle

Client: Etech Environmental & Safety Solutions Job ID: 890-6003-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Lab Sample ID: 890-6003-1

Client Sample ID: BH01

Matrix: Solid

Date Collected: 01/19/24 09:30 Date Received: 01/22/24 08:00

	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	71690	01/26/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71826	01/29/24 05:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			72147	01/31/24 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 18:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 02:37	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6003-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification. Prep Method	Matrix	Analyte	
8015 NM	1 TOP MOUNTOU	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1

SDG: Eddy Co

y County Mivi	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6003-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6003-1	BH01	Solid	01/19/24 09:30	01/22/24 08:00	0.5

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U ricle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 10	Code None: NO No. NM Due Date: 5 Day TAT Cool: Cool Feno TAT starts the day received by	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 (a C C)	Chain of Custody Houston, TX (281), 240-4200, Dalles, TX (214), 902-0300
	ank: (Yes ylo Wet Ice: Yes No Fee No No Fee	Bill to: (# different) Jim Raley WPX Energy Permian, LLC. State of Project: Address: 5315 Buena Vista Dr. Reporting: Level III Deventiletds RRC State of Project: Reporting: Level III PST/UST TRRP Deliverables: EDD ADaPT Other: Address Analysis REQUEST PRP Brownfields RRC State of Project: Reporting: Level III PST/UST TRRP Deliverables: EDD ADaPT Other: Other: Analysis REQUEST PRP Brownfields RRC State of Project: Reporting: Level III PST/UST TRRP Deliverables: EDD ADaPT Other: Other: Analysis REQUEST PRP Brownfields RRC Other: Analysis REQUEST PRP Brownfields RRC Other: Analysis Regulation Analy	Email: Devot-Gentle Secondary Nation Tarks Secondary Tarks Secondary Tarks
nAPP24	the lab, if received by 4:30pm serious the lab, if received by 4:30pm the lab, if received by	Bill for (if different) Jim Raley Work Order Comments	Bill to: (if different)
nAP	ank: (Yes Mo Wet Ice: Yes No More Ice: Y	Bill to: (if different) Jim Raley WPX Energy Permian, LLC.	Middard, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-343, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 982-3199 CCO Mork Order Comments More Order Order More Order Order Comments More Order Order Comments More Order More Order O
Sampled Sampled (feet) Comp Cont The Depth Grab! # of The Sampled (feet) Comp Cont The Transport of Cont Transport of Co	TAT starts the day received by	utions, Inc Company Name: WPX Energy Permian, LLC, Program: UST/PST □ PRP□ Brownfields □ RRC □ State of Project: Work Order Comments is a program: UST/PST □ PRP□ Brownfields □ RRC □ State of Project: Reporting: Level III □ PST/UST □ TRRP □ Other: City, State ZIP: Carlsbad, NM, 88220 Reporting: Level III □ Level III □ PST/UST □ TRRP □ Other: Deliverables: EDD □ ADaPT □ Other: Turn Around Pres. ANALYSIS REQUEST Preservativ □ Routine □ Rush Gode None: NO □ Due Date: 5 Day TAT Cool: Cool NA	Midland, TX (432) 704-5440, San Antonio, TX (210) 609-3334 EL Paso, TX (915) 885-349; Lubbock, TX (806) 794-1296 Hobbs, NM (575) 992-7550, Carlsbad, NM (575) 988-3199 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sampled Sampled Comp C	C Bouthon Duck	Bill to: (if different) Jim Raley Work Order Comm c Company Name: WPX Energy Permian, LLC. Program: UST/PST ☐ PRP☐ Brownfields Address: 5315 Buena Vista Dr. State of Project: City, State ZIP: Carlsbad, NM, 88220 Reporting: Level II ☐ Level III ☐ PST/UST all: Devon-leam@elechenv.com, iim:ralev@dvn.com ADaPT ☐	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (8105) 784-1296 Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 988-3199 C Company Name: WPX Energy Permian, LLC. Address: 5315 Buena Vista Dr. City, State ZIP: Carlsbad, NM, 88220 City, State ZIP: Carlsbad
Turn Around Pres. Code	Tum Around ANALYSIS REQUEST Preservati	Bill to: (if different) Jim Raley Work Order Comments Company Name: WPX Energy Permian, LLC. Program: UST/PST PRP Brownfields RRC State of Project:	Midland, TX (432) 704-5440, San Antonio, TX (210) 609-3334 EL Paso, TX (915) 885-3443, Lubbock, TX (806) 794-1296 Antonio, TX (810) 794-1296 Page Image: NM (575) 932-7550, Carlsbad, NM (575) 988-3199 Page Image: North Comments of Company Name: NPX Energy Permian, LLC. Work Order Comments of Company Name: NPX Energy Permian, LLC. Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ State of Project:
City, State ZIP: Carlsbad, NM, 88220 Reporting: Level III PST	City, State ZIP: Carlsbad, NM, 88220 Reporting: Level III □ PST/UST □ TRRP □	Bill to: (if different) Jim Raley Work Order Comments	Midland, TX (432) 704-5440, San Antonio, TX (210) 609-3334 EL Paso, TX (915) 565-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Bill to: (if different) Jim Raley Work Order Comments
Andress	Address: 5315 Buena Vista Dr. Address: 5315 Buena Vista Dr. Address: 5315 Buena Vista Dr. State of Project:		Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (315) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 (a CO) WWW.xenco.com Page
Chain of Custody Houston TX (281) 280-2600 Chain of Custody Houston TX (281) 280-2600 Chain of Custody Houston TX (282) 704-5440, San Antonio, TX (210) 585-2448, Lubboch, TX (816) 784-1296 Hobbs, INM (572) 704-5440, San Antonio, TX (210) 585-2448, Lubboch, TX (816) 784-1296 Hobbs, INM (573) 582-7850, Carlsbad, INM (875) 988-3199 C C C S WWIV.Xenioo.com Address:	Chain of Custody Houston TX(281) 240-4202. Dallas. TX (214) 902-0300 Bill to: (if different) Jim Raley Lubbock, TX (806) 794-1296 Hobbs, NM (575) 992-7550, Carlsbad, NM (575) 998-3199 CCCC Work Order Comments Lubbos, NM (575) 998-3199 CCCC Work Order Comments Work Energy Permian, LLC. State of Project: Carlsbad, NM, 89220 City, State ZIP: Carlsbad, NM, 89220 Cotton Zip: Carlsbad, NM, 89220 City, State ZIP: Carlsbad, NM, 89220 Cotton Zip: Cotton Zip: Carlsbad, NM, 89220 Cotton Zip: Cotto	Chain of Custody Houston TX(281) 240-4200, Dalles, TX (214) 902-0300	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6003-1

SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

List Number: 1

Login Number: 6003

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6003-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Login Number: 6003 List Number: 2

Creator: Rodriguez, Leticia

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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:25:24 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6004-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6004-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

3

4

6

8

10

40

13

Definitions/Glossary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6004-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

2

Qualifiers

GC	VOA
Qual	ifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

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

7

HPLC/IC

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.

1

Elisted under the "D" column to designate that the result is reported on a dry weight basis

12

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

1

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)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detectable Conc MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present
POL Prostical Quantitation

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control
RER Relative Error F

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Job ID: 890-6004-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Job ID: 890-6004-1 Eurofins Carlsbad

Job Narrative 890-6004-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/22/2024 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BH01 (890-6004-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71831 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-72133/20) and (890-6016-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-6004-1), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20), (CCV 880-72087/31) and (CCV 880-72087/5). 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 Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6004-1

SDG: Eddy County NM

Lab Sample ID: 890-6004-1

Matrix: Solid

Date Received: 01/22/24 08:00 Sample Depth: 1'

Client Sample ID: BH01 Date Collected: 01/19/24 09:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:41	02/01/24 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				01/29/24 13:41	02/01/24 23:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/29/24 13:41	02/01/24 23:32	1

Method: IAL SOP Total BTEX - To	ital BIEX Calcul	ation					
Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	mg/Ko	9		02/01/24 23:32	1
_							

Method: SW846 8015 NM - Diesei Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.4	U	50.4		mg/Kg			02/01/24 17:19	1
	<u> </u>									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U	50.4		mg/Kg		01/25/24 09:18	02/01/24 17:19	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		01/25/24 09:18	02/01/24 17:19	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/25/24 09:18	02/01/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				01/25/24 09:18	02/01/24 17:19	1
o-Terphenyl	122		70 ₋ 130				01/25/24 09:18	02/01/24 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	378	4.95	mg/Kg			01/29/24 02:44	1	

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Surrogate Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6004-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6004-1	BH01	128	106	
890-6016-A-1-B MS	Matrix Spike	106	97	
890-6016-A-1-C MSD	Matrix Spike Duplicate	136 S1+	120	
LCS 880-71831/1-A	Lab Control Sample	85	77	
LCSD 880-71831/2-A	Lab Control Sample Dup	87	79	
MB 880-71831/5-A	Method Blank	72	122	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenzer	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5998-A-61-B MS	Matrix Spike	147 S1+	108	
890-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105	
890-6004-1	BH01	151 S1+	122	
LCS 880-71569/2-A	Lab Control Sample	117	99	
LCSD 880-71569/3-A	Lab Control Sample Dup	118	110	
MB 880-71569/1-A	Method Blank	159 S1+	124	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Job ID: 890-6004-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71831/5-A

Matrix: Solid Analysis Batch: 72133 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71831

MB	MB
Pocult	Oualifi

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	01/29/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122	70 - 130	01/29/24 13:41	02/01/24 14:51	1

Lab Sample ID: LCS 880-71831/1-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71831

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08590		mg/Kg		86	70 - 130	
Toluene	0.100	0.08472		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-71831/2-A

Matrix: Solid

Analysis Batch: 72133

Prep Type: Total/NA

Prep Batch: 71831

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08209		mg/Kg		82	70 - 130	5	35
Toluene	0.100	0.08170		mg/Kg		82	70 - 130	4	35
Ethylbenzene	0.100	0.08255		mg/Kg		83	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1932		mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09310		mg/Kg		93	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1 4-Difluorobenzene (Surr)	79	70 - 130

Lab Sample ID: 890-6016-A-1-B MS

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71831

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.08553		mg/Kg		86	70 - 130	
Toluene	< 0.00199	U	0.0996	0.08395		mg/Kg		84	70 - 130	

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Page 8 of 20

Job ID: 890-6004-1

Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: 890-6016-A-1-B MS

Analysis Batch: 72133

Matrix: Solid Prep Type: Total/NA Prep Batch: 71831 MS MS Sample Sample Snike

	Gampic	Gampic	Opino	1110	1110				/01100
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.06838	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1418		mg/Kg		71	70 - 130
o-Xylene	< 0.00199	U F2 F1	0.0996	0.01126	F1	mg/Kg		11	70 - 130
	MC	МС							

l	Surrogate	%Recovery	Qualifier	Limits		
	4-Bromofluorobenzene (Surr)	106		70 - 130		
l	1,4-Difluorobenzene (Surr)	97		70 - 130		

Lab Sample ID: 890-6016-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 72133

Prep Batch: 71831 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte Added Unit %Rec Limits 0.0990 Benzene <0.00199 U 0.08356 mg/Kg 84 70 - 130 2 35 <0.00199 U 0.08553 Toluene 0.0990 mg/Kg 86 70 - 130 2 35 Ethylbenzene <0.00199 UF1 0.0990 0.06985 mg/Kg 71 70 - 130 2 35 <0.00398 U 0.198 0.1506 70 - 130 35 m-Xylene & p-Xylene mg/Kg 76 6 0.0990 <0.00199 U F2 F1 0.08422 F2 85 70 - 130 o-Xylene mg/Kg 153

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-71569/1-A

Matrix: Solid

Analysis Batch: 72087

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

Prep Batch: 71569

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	01/25/24 09:18	02/01/24 07:59	1
o-Terphenyl	124		70 - 130	01/25/24 09:18	02/01/24 07:59	1

Lab Sample ID: LCS 880-71569/2-A

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 71569

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1166		mg/Kg		117	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1258		mg/Kg		126	70 - 130

C10-C28)

Job ID: 890-6004-1 SDG: Eddy County NM

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

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

LCS LCS

Lab Sample ID: LCS 880-71569/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA
Prep Batch: 71569

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 71569

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Surrogate %Recovery Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-71569/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: /208/							Prep	Batch:	/1569
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1051		mg/Kg		105	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1136		mg/Kg		114	70 - 130	10	20

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenvl	110		70 - 130

Lab Sample ID: 890-5998-A-61-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 72087 Prep Batch: 71569 Sample Sample Cnika Me Me

	Sample	Sample	Spike	IVIO	IVIO				/onec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.3	U	1010	1136		mg/Kg		108	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.3	U F1	1010	1469	F1	mg/Kg		143	70 - 130	
C10 C20\										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-5998-A-61-C MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 72087

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <50.3 U 1010 1133 108 20 70 - 130 0 mg/Kg

1497 F1

mg/Kg

146

70 - 130

1010

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	105		70 - 130

<50.3 U F1

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6004-1

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A

Matrix: Solid

Analysis Batch: 71737

Prep Type: Soluble

мв мв MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/29/24 01:55

Lab Sample ID: LCS 880-71577/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.5 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71577/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 272.7 mg/Kg 109 90 - 110

Lab Sample ID: 890-6002-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 416 249 678.6 105 90 - 110 mg/Kg

Lab Sample ID: 890-6002-A-3-D MSD

Matrix: Solid

Analysis Batch: 71737

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 416 680.3 mg/Kg 106 90 - 110 0 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6004-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	5035	
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	8021B	71831
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	8021B	71831
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71831
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	71831
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71831

Analysis Batch: 72223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	8015NM Prep	
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71577

l ah Camania ID	Client Comple ID	Draw Time	Matrix	Method	Duan Batah
Lab Sample ID	Client Sample ID	Prep Type	Matrix		Prep Batch
890-6004-1	BH01	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6004-1 SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 71577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6004-1	BH01	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	71577
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71577

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Job ID: 890-6004-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Client Sample ID: BH01

Lab Sample ID: 890-6004-1

Date Collected: 01/19/24 09:35 Date Received: 01/22/24 08:00

	Matrix: Solid
	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			5.01 g	5 mL	71831	01/29/24 13:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/01/24 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72223	02/01/24 23:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			72233	02/01/24 17:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 02:44	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6004-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification. Prep Method	Matrix	Analyte	
8015 NM	1 TOP MOUNTOU	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6004-1 SDG: Eddy County NM

Laboratory	
EET MID	
EET MID	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6004-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6004-1	BH01	Solid	01/19/24 09:35	01/22/24 08:00	1'

6004											
0	ofins			House	Chain of Custody	of Cu	Chain of Custody				
1		Environment Testin	Sting	Midland, 7	X (432) 704-54	10, San Anto	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334		890-6004 Cha	890-6004 Chain of Custody	
	Xenco	0		EL Paso Hobbs, n	, TX (915) 585-3 JM (575) 392-75	443, Lubboc 50, Carlsbac	EL Paso, TX (915) 585-3443, Lubbock, TX (805) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	5000		or o	-
Project Manager:	Gilbert Moreno			Bill to: (if different)	Jim Raley				Work Or	1	5
Company Name:	eTECH Enviromental & Safety Solutions, Inc	Ital & Safety Sc	olutions, Inc	Company Name:	WPX Ene	WPX Energy Permian, LLC.	n, LLC.	Program	Program: IST/PST PPP Brownfields	Srownfields pp	- Cimensing
Address:	13000 W County Rd 100	3d 100		Address:	5315 Bue	5315 Buena Vista Dr.		State of Project:	Project	The state of the s	ounreadne
City, State ZIP:	Odessa, TX, 79765	2		City, State ZIP:	Carlsbad	Carlsbad, NM. 88220	0	Reporting	Reporting: Level III Destrust TBRP	PST/UST TRB	Wileyel M
Phone:	832-541-7719		Email:	Email: Devon-team@etechenv.com. lim.raley@dvn.com	schenv,com,	iim,raley@	Ndvn.com	Deliverat	Deliverables: EDD	ADaPT Other:	
Project Name:	East Pecos Federal Com 22 #007H	Com 22 #007		Turn Around			ANALYS	ANALYSIS REDIJEST		O Cook	Adhir Caster
Project Number:	19579	6	☑ Rou		Pres.					None: NO	NO DI Woter II
Project Location:	Eddy County, NM	ity, NM	Due Date:	5 Day TAT							of veneral response
Sampler's Name:	Gilbert Moreno	oreno	TAT starts the	starts the day received by						HCL: HC	HNO.: HN
WO#:	1	2	the lab, if rec	lab, if received by 4:30pm	015					H2SO4: H2	NaOH: Na
SAMPLE RECEIPT	- Femb	9	Wet Ice:	Yes No	2201					H ₃ PO ₄ : HP	
Samples Received Intact:	act: Yes N		er ID:	14/200		(0				NaHSO4: NABIS	8
Cooler Custody Seals:	Yes No	N/A Correction Factor:	actor.	20.00	_	300.				Na ₂ S ₂ O ₃ : NaSO ₃	53
Total Containers:	res No	N/A 1 emperature Reading: Corrected Temperature:	e Reading: emperature:	100	-	A93)				Zn Acetate+NaOH: Zn	OH: Zn
Semile Islandiffication		Date	Time	Depth Grab/ # of	(80-		4009			O CONTRACTOR OF THE PROPERTY O	בשמת פשום
nani ardina	uncauon marrix		Sampled	Comp	HqT ara	1	lvi			Sample	Sample Comments
ВНО	S	1.19.24	9:35	1. Cemp 1	×	×					
	1			1	1						
				1		#				Inci	Incident #
	1		1			1				nAPP24	nAPP2400434204
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\											
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: d Metal(s) to be ana	BR alyzed	BRCRA 13PPM TCLP / SPLI	Texas 11 6010: 8RC	Al Sb As Ba Be B Cd	Be Cd	Sh As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Sh As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	e Pb Mg Mn M	K Se A	TI Sn (J V Zn
Notice: Signature of this document and reinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subscontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$56.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously respoisated.	cument and relinquishmer will be liable only for the c num charge of \$85.00 will b	nt of samples const tost of samples and be applied to each p	itutes a valid purc shall not assume roject and a charg	hase order from client c any responsibility for an te of \$5 for each semple	ompany to Eurofi ty losses or expe submitted to Eur	ns Xenco, its nses incurred ofins Xenco,	affiliates and subcontra I by the client If such los but not analyzed. These	ctors, it assigns stands ses are due to circumsit terms will be enforced i	valid purchase order from client company to Eurofins Xenco, its affiliates and eubcontractors. It assigns standard terms and conditions of assume any responsibility for any losses or expenses incurved by the client if such losses are due to circumstances beyond the control and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously togetished		
Relinquished by: (Signature)	(Signature)	Received by:	by: (Signature)	re)	Date/Time		Relinquished by: (Signature)	Signature)	Received by: (Signature)	ture)	Date/Time
- Carpins		SUL	S	8	1/2	2				-	
						4					
						9					

Loc: 890

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6004-1

SDG Number: Eddy County NM

Login Number: 6004 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6004-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Login Number: 6004 List Number: 2

Creator: Rodriguez, Leticia

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	
s 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 Carlsbad

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:25:24 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6005-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/2/2024 12:25:24 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Released to Imaging: 5/28/2024 3:25:17 PM

Laboratory Job ID: 890-6005-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-6005-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
CC Comi V	04

GC Semi VOA

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

HPLC/IC

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.
n	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)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDC	Minimum Detectable Cond
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NC	Nat Calaulata
INC	Not Calculated

ND	Not Detected at the reporting limit (or MDL or EDL if shown)
שוו	Not betected at the reporting infin (or MDE or EDE if Showin)

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

PRES	Presumptive
QC	Quality Control

TEQ

KEK	Relative Error Ratio	(Radiocnemistry)

RL	Reporting Limit or Requested Limit (Radiochemistry)
----	---

RPD	Relative Percent Difference, a measure of the relative difference between two points
TEE	Toxicity Equivalent Eactor (Dioxin)

TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 890-6005-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Eurofins Carlsbad Job ID: 890-6005-1

Job Narrative 890-6005-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/22/2024 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BH01 (890-6005-1).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71831 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-72133/20) and (890-6016-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-6005-1), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20), (CCV 880-72087/31) and (CCV 880-72087/5). 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.

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

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1

SDG: Eddy County NM

Lab Sample ID: 890-6005-1

Matrix: Solid

Client Sample ID: BH01

Date Collected: 01/19/24 09:40 Date Received: 01/22/24 08:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:41	02/01/24 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/29/24 13:41	02/01/24 23:58	1
1,4-Difluorobenzene (Surr)	113		70 - 130				01/29/24 13:41	02/01/24 23:58	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/01/24 23:58	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
	•		•	MDI	Unit	n	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	GC) RL 50.5	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/01/24 17:40	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <50.5	Qualifier U	RL 50.5	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.5 sel Range Orga	Qualifier U	RL 50.5			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.5 sel Range Orga	Qualifier U unics (DRO) Qualifier	RL 50.5		mg/Kg			02/01/24 17:40	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.5 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 50.5 (GC)		mg/Kg		Prepared	02/01/24 17:40 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.5 sel Range Orga Result <50.5	Qualifier U unics (DRO) Qualifier U	RL 50.5 (GC) RL 50.5		mg/Kg Unit mg/Kg		Prepared 01/25/24 09:18	02/01/24 17:40 Analyzed 02/01/24 17:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5 sel Range Orga Result <50.5	Qualifier U unics (DRO) Qualifier U	RL 50.5 (GC) RL 50.5		mg/Kg Unit mg/Kg		Prepared 01/25/24 09:18	02/01/24 17:40 Analyzed 02/01/24 17:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.5 (GC) RL 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18	02/01/24 17:40 Analyzed 02/01/24 17:40 02/01/24 17:40	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.5	Qualifier U unics (DRO) Qualifier U U	RL 50.5 (GC) RL 50.5 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	02/01/24 17:40 Analyzed 02/01/24 17:40 02/01/24 17:40 02/01/24 17:40	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared	02/01/24 17:40 Analyzed 02/01/24 17:40 02/01/24 17:40 02/01/24 17:40 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies 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 Inics (DRO) Qualifier U U Qualifier S1+	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 17:40 Analyzed 02/01/24 17:40 02/01/24 17:40 Analyzed 02/01/24 17:40	1 1 <i>Dil Fac</i>
Analyte Total TPH Method: SW846 8015B NM - Dies 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 Inics (DRO) Qualifier U U Qualifier S1+	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 17:40 Analyzed 02/01/24 17:40 02/01/24 17:40 Analyzed 02/01/24 17:40	Dil Fac 1 1 Dil Fac

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-6005-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County 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)	
890-6005-1	BH01	116	113	
890-6016-A-1-B MS	Matrix Spike	106	97	
890-6016-A-1-C MSD	Matrix Spike Duplicate	136 S1+	120	
LCS 880-71831/1-A	Lab Control Sample	85	77	
LCSD 880-71831/2-A	Lab Control Sample Dup	87	79	
MB 880-71831/5-A	Method Blank	72	122	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red	covery (Accep
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-5998-A-61-B MS	Matrix Spike	147 S1+	108		_
890-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105		
890-6005-1	BH01	157 S1+	129		
LCS 880-71569/2-A	Lab Control Sample	117	99		
LCSD 880-71569/3-A	Lab Control Sample Dup	118	110		
MB 880-71569/1-A	Method Blank	159 S1+	124		
Surrogate Legend					
1CO = 1-Chlorooctane					

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Job ID: 890-6005-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71831/5-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71831

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	•
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	01/29/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122	70 - 130	01/29/24 13:41	02/01/24 14:51	1

Lab Sample ID: LCS 880-71831/1-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71831

		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.08590		mg/Kg		86	70 - 130	
	Toluene	0.100	0.08472		mg/Kg		85	70 - 130	
	Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130	
	m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130	
	o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	
- 1									

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	85	70 - 130
1,4-Difluorobenzene (Surr)	77	70 - 130

Lab Sample ID: LCSD 880-71831/2-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71831

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08209		mg/Kg		82	70 - 130	5	35
Toluene	0.100	0.08170		mg/Kg		82	70 - 130	4	35
Ethylbenzene	0.100	0.08255		mg/Kg		83	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1932		mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09310		mg/Kg		93	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1.4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-6016-A-1-B MS

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71831

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.08553		mg/Kg		86	70 - 130	
Toluene	< 0.00199	U	0.0996	0.08395		mg/Kg		84	70 - 130	

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Page 8 of 20

Client: Etech Environmental & Safety Solutions Job ID: 890-6005-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Analysis Batch: 72133

Lab Sample ID: 890-6016-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 71831

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene	<0.00199	U F1	0.0996	0.06838	F1	mg/Kg		69	70 - 130	
	m-Xylene & p-Xylene	<0.00398	U	0.199	0.1418		mg/Kg		71	70 - 130	
	o-Xylene	<0.00199	U F2 F1	0.0996	0.01126	F1	mg/Kg		11	70 - 130	
ı											

MS MS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71831

Lab Sample ID: 890-6016-A-1-C MSD **Matrix: Solid**

Analysis Batch: 72133

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.08356		mg/Kg		84	70 - 130	2	35
Toluene	< 0.00199	U	0.0990	0.08553		mg/Kg		86	70 - 130	2	35
Ethylbenzene	< 0.00199	U F1	0.0990	0.06985		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1506		mg/Kg		76	70 - 130	6	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.08422	F2	mg/Kg		85	70 - 130	153	35
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00199 <0.00199 <0.00398	U U F1 U	0.0990 0.0990 0.198	0.08553 0.06985 0.1506	F2	mg/Kg mg/Kg mg/Kg		86 71 76	70 - 130 70 - 130 70 - 130	_	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-71569/1-A

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Method	l Blank
Pren Type: To	otal/NA

Prep Batch: 71569

	IVID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	01/25/24 09:18	02/01/24 07:59	1
o-Terphenyl	124		70 - 130	01/25/24 09:18	02/01/24 07:59	1

Lab Sample ID: LCS 880-71569/2-A

Matrix: Solid

Analysis Batch: 72087

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 71569

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1166		mg/Kg		117	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1258		mg/Kg		126	70 - 130	
C10-C28)								

Job ID: 890-6005-1 SDG: Eddy County NM

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

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

LCS LCS

Lab Sample ID: LCS 880-71569/2-A

1000

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 71569

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-71569/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 72087

Diesel Range Organics (Over

Prep Type: Total/NA

70 - 130

114

Prep Batch: 71569

10

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1000 1051 105 70 - 130 10 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1136

mg/Kg

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-5998-A-61-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA

Prep Batch: 71569

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1136		mg/Kg		108	70 - 130	
Diesel Range Organics (Over	<50.3	U F1	1010	1469	F1	mg/Kg		143	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-5998-A-61-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA Prep Batch: 71569

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1133		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.3	U F1	1010	1497	F1	mg/Kg		146	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	105		70 - 130

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1

SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analysis Batch: 71737

Matrix: Solid

	IVID	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		ma/Ka			01/29/24 01:55	1	

MD MD

Lab Sample ID: LCS 880-71577/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 71737

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.5 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71577/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 272.7 mg/Kg 109 90 - 110

Lab Sample ID: 890-6002-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 678.6 Chloride 416 249 105 90 - 110 mg/Kg

Lab Sample ID: 890-6002-A-3-D MSD

Matrix: Solid

Analysis Batch: 71737

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	416		249	680.3		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Total/NA	Solid	5035	
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Total/NA	Solid	8021B	71831
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	8021B	71831
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71831
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	71831
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71831

Analysis Batch: 72224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID 890-6005-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1 SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 71577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6005-1	BH01	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	71577
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71577

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Lab Chronicle

Client: Etech Environmental & Safety Solutions Job ID: 890-6005-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Client Sample ID: BH01

Date Received: 01/22/24 08:00

Lab Sample ID: 890-6005-1 Date Collected: 01/19/24 09:40

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			4.97 g	5 mL	71831	01/29/24 13:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/01/24 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72224	02/01/24 23:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			72234	02/01/24 17:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 17:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 02:50	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6005-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
• .	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1

SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6005-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6005-1	BH01	Solid	01/19/24 09:40	01/22/24 08:00	2'

		1		STATE OF		Contract of the last		depres de la constante	Total Control of the				
Collect Notice		0		- Sun	Midis	and, TX (43	2) 704-5440	San Antoni	o, TX (210) 509-3	1334			
Drder Comments Brownfields RRC ADaPT Other. ADaPT Other. ADaPT Other. ADaPT Other. Preservative None: NO Other. HP H ₂ PO ₄ : HP H ₂ PO ₄ : HP NaHSO ₄ : NASO ₃ Zn Acetate+NaOH. NaCH+Ascorbio Acetate+NaOH. NaCH+Ascorbio Acetate+NaOH. Sample Consideration of the preservative Acetate+NaOH. Adaptive Acetate+		Xenco			급	Paso, TX (15) 585-34 (5) 392-755	3, Lubbock,	TX (806) 794-12 NM (575) 988-31	9)	890-6005 Chain of Cut	stody	
Brownfields RRC ADaPT Other. Preservative None: NO Dog: HP HyPO; HP NaHSO; NaSO; Zn Aceta(e+NaOH: NaOH*Ascorbic Ac Sample Con Sample Con Sample Con Sample Con Sample Con Sample Con	Topon manager.	Gilbert Moreno			Bill to: (if differe		im Raley				Work	c Order Comments	
Abapt Other. Abapt Other. Preservative None: NO Ocol. Cool None: NO None: NO Ocol. Cool	Company Name:	eTECH Enviromental	& Safety Sol		Company Nan		VPX Energ	/ Permian.	TIC	l l	Daram: UST/PST PRP	Brownfields	I
ADaPT Cother: Preservative Cother: None: NO DIV Cod: Cool Met HCL: HC H2SQ; HP NaHSQ; NABIS Na2S2O; NaSO3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: Sample Comm Sample Comm Sample TI Sn U V Zn 631 / 245.1 / 7470	Address:	13000 W County Rd 1	100		Address:		315 Buens	Vista Dr.		Sta	te of Project:	Spianing	
ADaPT Cother. Preservative Cotor: Cool: Cool: Cool: Cool: Hwc Hys Og; Hp Hys Og; Hp Nad Sog; Na Sog, Zn Acetate+NaOH: Zn Ace	City, State ZIP:	Odessa, TX, 79765			City, State ZIP		Sarlsbad, I	IM, 88220		Re	porting: Level II Level	T ☐ PST/UST ☐ III	
Preservativ None: NO Cod: Cod! H-SO4: H-2 H-PO4: HP NaHSO4: NABIS Na-S-204: NASO3 Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Sample Co D2 Na Sr TI Sn U V 631 / 245.1 / 7470 / 74	Phone:	832-541-7719		Email:	Devon-team(Deteche	ıv.com, ji	n.raley@c	lvn.com	De	iverables: EDD	ADaPT C	
None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₅ : HP NaHSO ₄ : NASIS NaS ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Sample Co	Project Name:	East Pecos Federal Co	om 22 #007H	Turn	Around				ANA	YSIS REDITE	1-0	Descen	and a continue
Cool: Cool HQL: HC HqsDq; Hq HqsDq; NaSlog Nas2Sq; NaSOg Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Sample Co Sample Co O2 Na Sr TI Sn U V 631/245.1/7470 / 74	Project Number:	19579		☑ Routine	Rush	Pres.						None No	O Water H.O
Harring Harrin	Project Location:	Eddy County,	NM	Due Date:	5 Day TAT							Cool Cool	MacOut Mac
02 Na	Sampler's Name.	Gilbert More	oue	TAT starts the	day received by		_					HCL: HC	HNO3: HN
02 Na	NO #.		X	the lab, if rece	lived by 4:30pm	S19:						H ₂ SO ₄ : H ₂	NaOH: Na
02 Na	Sompler Booking	+	Yes) No	Wet Ice:	Yes No	met		-				H ₃ PO₄; HP	
02 Na	Cooler Custody Se	Yes No	Thermometer Correction Fa	ID:	SUND	ele:		(0.0				NaHSO4: N	IABIS
02 Na	Sample Custody Si	Yes No	Femperature	Reading:	かが	1		10E A				Na ₂ S ₂ O ₃ : N	laso ₃
02 Na	otal Containers:		Corrected Ter	nperature:	0.0		100	_				NaOH+Aso	orbic Acid: SAPC
2, Na Sr 7	Sample Ide											Samp	ole Comments
2, Na Sr T	BH		1.19.24	1	T	-	1	+					
2, Na Sr T					CEAR							I	
2 Na Sr T				1									Incident#
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2 Na Sr TI Sn U V		(,)	\										
2 Na Sr TI Sn U V	,	1000				1	1	+		+			
2, Na Sr Tl Sn U V 631/245.1/7470 / 74		1					I	+				-	
2 Na Sr TI Sn U V 631 / 245.1 / 7470 / 74	1												
Na Sr Ti Sn U V 631/245.1/7470 / 74		- 11											
	Total 200.7 / 6 ircle Method(s) a	010 200.8 / 6020: nd Metal(s) to be analyz	BRC red	CLP / SPL	1 Texas 11 .P 6010: 8R(Al Sb	s Ba Be As Ba	B Cd C	a Cr Co Cu Co Cu Pb	Fe Pb Mg N	An Mo Ni K Se Ag S	SiO ₂ Na Sr Tl Sn 1631 / 245.1 / 747	U V Zn
	Relinquished by	(Signature)	Received	by: (Signatur		De	te/Time	Re	linquished by	: (Signature)	Received by: (S	Signature)	Date/Time
Received by: (Signature)	rofu)	0	mi	2		30 /	123	2					
Received by: (Signature)	_)						4					
Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature)													

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6005-1

SDG Number: Eddy County NM

Login Number: 6005 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6005-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Login Number: 6005 List Number: 2

Creator: Rodriguez, Leticia

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	N/A	

Released to Imaging: 5/28/2024 3:25:17 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:25:55 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6006-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/2/2024 12:25:55 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6006-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receint Checklists	20

2

3

4

6

8

9

11

12

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-6006-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

GC	VOA
Qual	ifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

%R

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

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)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

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

Presumptive **PRES 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 Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Job ID: 890-6006-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Eurofins Carlsbad Job ID: 890-6006-1

> Job Narrative 890-6006-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:00 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH02 (890-6006-1) and BH02 (890-6006-2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71831 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-72133/20) and (890-6016-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH02 (890-6006-1), BH02 (890-6006-2), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20), (CCV 880-72087/31) and (CCV 880-72087/5). 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.

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

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6006-1

SDG: Eddy County NM

Client Sample ID: BH02

Lab Sample ID: 890-6006-1 Date Collected: 01/19/24 09:50 Date Received: 01/22/24 08:00

Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/29/24 13:41	02/02/24 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/29/24 13:41	02/02/24 00:24	1
1,4-Difluorobenzene (Surr)	86		70 - 130				01/29/24 13:41	02/02/24 00:24	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/02/24 00:24	1
Analyte Total TPH	Result<50.0	Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
IOTAL IPH	<50.0	U						00/04/04 40 04	
		· ·	50.0		mg/Kg			02/01/24 18:01	1
Method: SW846 8015B NM - Die:	sel Range Orga				mg/Kg			02/01/24 18:01	1
	• •			MDL		D	Prepared	02/01/24 18:01 Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 01/25/24 09:18		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	01/25/24 09:18	Analyzed 02/01/24 18:01	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18	Analyzed 02/01/24 18:01 02/01/24 18:01	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 <50.0 <50.0	unics (DRO) Qualifier U U Qualifier	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	Analyzed 02/01/24 18:01 02/01/24 18:01 02/01/24 18:01	Dil Fac 1 1
Method: SW846 8015B NM - Dies 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	unics (DRO) Qualifier U U Qualifier	(GC) RL 50.0 50.0 50.0 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared	Analyzed 02/01/24 18:01 02/01/24 18:01 02/01/24 18:01 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	U Qualifier U Qualifier U Qualifier S1+	(GC) RL 50.0 50.0 50.0 Limits 70.130 70.130	MDL	Unit mg/Kg mg/Kg	<u> </u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 18:01 02/01/24 18:01 02/01/24 18:01 Analyzed 02/01/24 18:01	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	U Qualifier U Qualifier U Qualifier S1+	(GC) RL 50.0 50.0 50.0 Limits 70.130 70.130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 18:01 02/01/24 18:01 02/01/24 18:01 Analyzed 02/01/24 18:01	Dil Fac

Client Sample ID: BH02 Date Collected: 01/19/24 10:00

Lab Sample ID: 890-6006-2 **Matrix: Solid**

Date Received: 01/22/24 08:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:41	02/02/24 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				01/29/24 13:41	02/02/24 00:50	1

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

148

Job ID: 890-6006-1 SDG: Eddy County NM

Lab Sample ID: 890-6006-2

Matrix: Solid

Sample Depth: 2'

Analyte

Chloride

Client Sample ID: BH02

Date Collected: 01/19/24 10:00

Date Received: 01/22/24 08:00

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130				01/29/24 13:41	02/02/24 00:50	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/24 00:50	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/24 18:22	1
Total TPH Method: SW846 8015B NM - Dies Analyte	sel Range Orga			MDL	mg/Kg Unit		Prepared	02/01/24 18:22 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		D	Prepared 01/25/24 09:18		1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <50.0	unics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	01/25/24 09:18	Analyzed 02/01/24 18:22	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	unics (DRO) Qualifier U	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	01/25/24 09:18	Analyzed 02/01/24 18:22	Dil Fac 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	sel Range Orga Result <50.0	Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	D	01/25/24 09:18	Analyzed 02/01/24 18:22 02/01/24 18:22	Dil Fac
Method: SW846 8015B NM - Dies	sel Range Orga Result <50.0 <50.0	Qualifier U Qualifier	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	D	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	Analyzed 02/01/24 18:22 02/01/24 18:22 02/01/24 18:22	1 1

4.97

MDL Unit

mg/Kg

Prepared

Analyzed

01/29/24 03:18

Dil Fac

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6006-1	BH02	90	86	
890-6006-2	BH02	123	103	
890-6016-A-1-B MS	Matrix Spike	106	97	
890-6016-A-1-C MSD	Matrix Spike Duplicate	136 S1+	120	
LCS 880-71831/1-A	Lab Control Sample	85	77	
LCSD 880-71831/2-A	Lab Control Sample Dup	87	79	
MB 880-71831/5-A	Method Blank	72	122	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5998-A-61-B MS	Matrix Spike	147 S1+	108
890-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105
890-6006-1	BH02	156 S1+	126
890-6006-2	BH02	150 S1+	118
LCS 880-71569/2-A	Lab Control Sample	117	99
LCSD 880-71569/3-A	Lab Control Sample Dup	118	110
MB 880-71569/1-A	Method Blank	159 S1+	124

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71831/5-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 890-6006-1

SDG: Eddy County NM

Prep Batch: 71831

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	•
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	01/29/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122	70 - 130	01/29/24 13:41	02/01/24 14:51	1

Lab Sample ID: LCS 880-71831/1-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71831

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08590	-	mg/Kg	_	86	70 - 130	
Toluene	0.100	0.08472		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-71831/2-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71831

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.08209 mg/Kg 82 70 - 130 5 35 Toluene 0.100 0.08170 mg/Kg 82 70 - 130 4 35 Ethylbenzene 0.100 0.08255 mg/Kg 83 70 - 130 21 35 0.200 m-Xylene & p-Xylene 0.1932 mg/Kg 97 70 - 130 13 35 0.100 0.09310 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1.4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-6016-A-1-B MS

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71831

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.08553		mg/Kg		86	70 - 130	
Toluene	< 0.00199	U	0.0996	0.08395		mg/Kg		84	70 - 130	

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Page 9 of 21

Client: Etech Environmental & Safety Solutions
Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6006-1 SDG: Eddy County NM

2

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

Lab Sample ID: 890-6016-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 72133

Prep Type: Total/NA

Prep Ty

	Gampio	Gampio	Opino						701100
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.06838	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1418		mg/Kg		71	70 - 130
o-Xylene	< 0.00199	U F2 F1	0.0996	0.01126	F1	mg/Kg		11	70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 106
 70 - 130

 1,4-Diffuorobenzene (Surr)
 97
 70 - 130

Lab Sample ID: 890-6016-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 72133 Prep Batch: 71831

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.08356		mg/Kg		84	70 - 130	2	35
Toluene	< 0.00199	U	0.0990	0.08553		mg/Kg		86	70 - 130	2	35
Ethylbenzene	< 0.00199	U F1	0.0990	0.06985		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1506		mg/Kg		76	70 - 130	6	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.08422	F2	mg/Kg		85	70 - 130	153	35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 136
 S1+
 70 - 130

 1,4-Difluorobenzene (Surr)
 120
 70 - 130

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

Lab Sample ID: MB 880-71569/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 72087

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 01/25/24 09:18 <50.0 U 50.0 02/01/24 07:59 Gasoline Range Organics mg/Kg (GRO)-C6-C10 02/01/24 07:59 Diesel Range Organics (Over <50.0 U 50.0 01/25/24 09:18 mg/Kg C10-C28)

 MB
 MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil F

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1-Chlorooctane
 159
 S1+
 70 - 130
 01/25/24 09:18
 02/01/24 07:59
 1

 o-Terphenyl
 124
 70 - 130
 01/25/24 09:18
 02/01/24 07:59
 1

Lab Sample ID: LCS 880-71569/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 72087 Prep Batch: 71569

	Spike	LUS	LUS				/orec
Analyte	Added	Result	Qualifier Unit	t I	D %F	Rec	Limits
Gasoline Range Organics	1000	1166	mg/	Kg		117	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1258	mg/	Kg	1	126	70 - 130

C10-C28)

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Prep Batch: 71569

Client: Etech Environmental & Safety Solutions

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

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

Lab Sample ID: LCS 880-71569/2-A

Lab Sample ID: LCSD 880-71569/3-A

Lab Sample ID: 890-5998-A-61-B MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 72087

Diesel Range Organics (Over

Analysis Batch: 72087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71569

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 117
 70 - 130

 o-Terphenyl
 99
 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

114

Prep Type: Total/NA

10

Analysis Batch: 72087 Prep Batch: 71569 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1051 105 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1136

mg/Kg

1000

C10-C28)

Matrix: Solid

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	110		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71569

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.3 U 1010 1136 mg/Kg 108 70 - 130 (GRO)-C6-C10 <50.3 U F1 Diesel Range Organics (Over 1010 1469 F1 mg/Kg 143 70 - 130 C10-C28)

C10-C26

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 147
 S1+
 70 - 130

 o-Terphenyl
 108
 70 - 130

Lab Sample ID: 890-5998-A-61-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA

Prep Batch: 71569

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.3	U	1010	1133		mg/Kg		108	70 - 130	0	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.3	U F1	1010	1497	F1	mg/Kg		146	70 - 130	2	20	
C10-C28)												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	105		70 - 130

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6006-1

SDG: Eddy County NM

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A

Matrix: Solid

Analysis Batch: 71737

MB MB MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/29/24 01:55

Lab Sample ID: LCS 880-71577/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.5 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71577/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 272.7 mg/Kg 109 90 - 110

Lab Sample ID: 890-6002-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 416 249 678.6 105 90 - 110 mg/Kg

Lab Sample ID: 890-6002-A-3-D MSD

Matrix: Solid

Analysis Batch: 71737

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 416 680.3 mg/Kg 106 90 - 110 0 20

QC Association Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6006-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

GC VOA

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	5035	
890-6006-2	BH02	Total/NA	Solid	5035	
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	8021B	71831
890-6006-2	BH02	Total/NA	Solid	8021B	71831
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
LCS 880-71831/1-A	Lab Control Sample	Total/NA	Solid	8021B	71831
LCSD 880-71831/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71831
890-6016-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	71831
890-6016-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71831

Analysis Batch: 72225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	Total BTEX	
890-6006-2	BH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	8015NM Prep	
890-6006-2	BH02	Total/NA	Solid	8015NM Prep	
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	8015B NM	71569
890-6006-2	BH02	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Total/NA	Solid	8015 NM	
890-6006-2	BH02	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-6006-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

HPLC/IC

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Soluble	Solid	DI Leach	
890-6006-2	BH02	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6006-1	BH02	Soluble	Solid	300.0	71577
890-6006-2	BH02	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	71577
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71577

Client Sample ID: BH02

Date Collected: 01/19/24 09:50

Date Received: 01/22/24 08:00

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Lab Sample ID: 890-6006-1

Matrix: Solid

Job ID: 890-6006-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 71831 Total/NA Prep 4.95 g 5 mL 01/29/24 13:41 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 72133 02/02/24 00:24 MNR **EET MID** Total/NA Analysis Total BTEX 72225 02/02/24 00:24 SM **EET MID** Total/NA 8015 NM 72235 02/01/24 18:01 **EET MID** Analysis 1 SM Total/NA 8015NM Prep 71569 01/25/24 09:18 TKC EET MID Prep 10.00 g 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 72087 02/01/24 18:01 SM **EET MID** 50 mL Soluble DI Leach 4.96 g 71577 01/25/24 10:14 SA Leach **EET MID** Soluble Analysis 300.0 5 71737 01/29/24 02:57 СН **EET MID**

Client Sample ID: BH02 Lab Sample ID: 890-6006-2

Date Collected: 01/19/24 10:00 **Matrix: Solid**

Date Received: 01/22/24 08:00

	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	71831	01/29/24 13:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72225	02/02/24 00:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72235	02/01/24 18:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 03:18	CH	EET MID

Laboratory References:

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

Released to Imaging: 5/28/2024 3:25:17 PM

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6006-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
• .	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6006-1 SDG: Eddy County NM

nty NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6006-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-6006-1	BH02	Solid	01/19/24 09:50	01/22/24 08:00	0.5'
890-6006-2	BH02	Solid	01/19/24 10:00	01/22/24 08:00	2'

TOTAL SOLUTION CONTROL STATES AND ACTION CON	House Chair of Custody Elevan Ministry	9000																
Description	Order Comments Ord	-	ofins				1	Ch	o uie	Cus	tody							
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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6006-1

SDG Number: Eddy County NM

Login Number: 6006 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6006-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Creator: Rodriguez, Leticia

Login Number: 6006

List Number: 2

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	N/A	

Euronnis Cansbau

Released to Imaging: 5/28/2024 3:25:17 PM

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/1/2024 10:23:23 AM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6007-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/1/2024 10:23:23 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6007-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

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3

6

8

10

12

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6007-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

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Qualifiers

GC VOA

 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.

5

GC Semi VOA

Qualifier Description

U

Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

Eisted 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)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

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Job ID: 890-6007-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Eurofins Carlsbad Job ID: 890-6007-1

Job Narrative 890-6007-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:00 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH03 (890-6007-1), BH03 (890-6007-2) and BH03 (890-6007-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH03 (890-6007-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

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

GC Semi VOA

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.

Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6007-1

SDG: Eddy County NM

Lab Sample ID: 890-6007-1

Client Sample ID: BH03

Date Collected: 01/19/24 10:10 Date Received: 01/22/24 08:00

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/29/24 13:46	02/01/24 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				01/29/24 13:46	02/01/24 01:41	1
1,4-Difluorobenzene (Surr)	72		70 - 130				01/29/24 13:46	02/01/24 01:41	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 01:41	1

Method. Swo46 outs NW - Diesel Kang	e Organ	iics (DRO) (GC	~)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/26/24 15:26	1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/25/24 16:32	01/26/24 15:26	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/25/24 16:32	01/26/24 15:26	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/25/24 16:32	01/26/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			01/25/24 16:32	01/26/24 15:26	1
o-Terphenyl	112		70 - 130			01/25/24 16:32	01/26/24 15:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	442		4.96		mg/Kg			01/29/24 03:25	1

Client Sample ID: BH03 Lab Sample ID: 890-6007-2

Date Collected: 01/19/24 10:15 Date Received: 01/22/24 08:00

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/29/24 13:46	02/01/24 02:07	1

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Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6007-1 SDG: Eddy County NM

Client Sample ID: BH03

Date Collected: 01/19/24 10:15 Date Received: 01/22/24 08:00

Sample Depth: 1'

Lab Sample ID: 890-6007-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 01/29/24 13:46 1,4-Difluorobenzene (Surr) 115 02/01/24 02:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00399 0.00399 02/01/24 02:07 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.5 50.5 01/26/24 15:48 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.5 U 50.5 mg/Kg 01/25/24 16:32 01/26/24 15:48 Gasoline Range Organics (GRO)-C6-C10 <50.5 U 50.5 01/25/24 16:32 01/26/24 15:48 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.5 U 50.5 mg/Kg 01/25/24 16:32 01/26/24 15:48

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 96 70 - 130 01/25/24 16:32 01/26/24 15:48 o-Terphenyl 119 70 - 130 01/25/24 16:32 01/26/24 15:48

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.97 01/29/24 03:31 Chloride 254 mg/Kg

Lab Sample ID: 890-6007-3 Client Sample ID: BH03

Date Collected: 01/19/24 10:20 Date Received: 01/22/24 08:00

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 01/29/24 13:46 02/01/24 02:33 Toluene <0.00201 U 0.00201 01/29/24 13:46 02/01/24 02:33 mg/Kg Ethylbenzene <0.00201 U 0.00201 01/29/24 13:46 02/01/24 02:33 mg/Kg 0.00402 02/01/24 02:33 m-Xylene & p-Xylene <0.00402 U 01/29/24 13:46 mg/Kg o-Xylene <0.00201 U 0.00201 mg/Kg 01/29/24 13:46 02/01/24 02:33 Xylenes, Total <0.00402 U 0.00402 mg/Kg 01/29/24 13:46 02/01/24 02:33

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 115 01/29/24 13:46 02/01/24 02:33 1,4-Difluorobenzene (Surr) 115 70 - 130 01/29/24 13:46 02/01/24 02:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed Total BTEX <0.00402 0.00402 02/01/24 02:33 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 01/26/24 16:10 mg/Kg

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6007-1 SDG: Eddy County NM

Lab Sample ID: 890-6007-3

Matrix: Solid

Client Sample ID: BH03

Date Collected: 01/19/24 10:20 Date Received: 01/22/24 08:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/24 16:32	01/26/24 16:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/24 16:32	01/26/24 16:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/24 16:32	01/26/24 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				01/25/24 16:32	01/26/24 16:10	1
o-Terphenyl	128		70 - 130				01/25/24 16:32	01/26/24 16:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		5.05		mg/Kg			01/29/24 03:38	1

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10

12

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	-
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6007-1	BH03	67 S1-	72	
890-6007-1 MS	BH03	121	106	
890-6007-1 MSD	BH03	112	119	
890-6007-2	BH03	105	115	
890-6007-3	BH03	115	115	
LCS 880-71840/1-A	Lab Control Sample	114	90	
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76	
MB 880-71638/5-A	Method Blank	62 S1-	90	
MB 880-71840/5-A	Method Blank	60 S1-	99	
Surrogate Legend				
BFB = 4-Bromofluorobenzo	ene (Surr)			
DFBZ = 1,4-Difluorobenze	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6007-1	BH03	92	112	
890-6007-2	BH03	96	119	
890-6007-3	BH03	104	128	
890-6020-A-1-F MS	Matrix Spike	116	119	
890-6020-A-1-G MSD	Matrix Spike Duplicate	114	117	
LCS 880-71622/2-A	Lab Control Sample	86	109	
LCSD 880-71622/3-A	Lab Control Sample Dup	75	92	
MB 880-71622/1-A	Method Blank	108	129	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Job ID: 890-6007-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A

Matrix: Solid

Analysis Batch: 71999

Prep Type: Total/NA

Prep Batch: 71638

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	

MB MB

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	
1,4-Difluorobenzene (Surr)	90		70 - 130	

rrepareu	Allalyzeu	DII Fac		
01/25/24 18:05	01/31/24 11:56	1		
01/25/24 18:05	01/31/24 11:56	1		

Lab Sample ID: MB 880-71840/5-A

Matrix: Solid

Analysis Batch: 71999

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

Prep Batch: 71840

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130	01/29/24 13:	46 02/01/24 01:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/29/24 13:	46 02/01/24 01:16	1

Lab Sample ID: LCS 880-71840/1-A

Matrix: Solid

Analysis Batch: 71999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 71840

l		Spike	LCS	LCS				%Rec	
l	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Benzene	0.100	0.09006		mg/Kg		90	70 - 130	
l	Toluene	0.100	0.09510		mg/Kg		95	70 - 130	
l	Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	
l	m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130	
l	o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1.4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: LCSD 880-71840/2-A

Matrix: Solid

Analysis Batch: 71999

Client Sample ID: Lab	Control Sample Dup
	Drop Type, Total/NA

Prep Type: Total/NA

Prep Batch: 71840

	Spike	LCSD LCSD				70KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07503	mg/Kg		75	70 - 130	18	35

LCCD LCCD

Cnika

Client: Etech Environmental & Safety Solutions

Job ID: 890-6007-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-71840/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 71999** Prep Batch: 71840 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.07644 76 70 - 130 35 mg/Kg 22 Ethylbenzene 0.100 0.08788 mg/Kg 88 70 - 130 15 35 0.200 m-Xylene & p-Xylene 0.1877 mg/Kg 94 70 - 130 11 35 o-Xylene 0.100 0.09988 mg/Kg 100 70 - 130 2 35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: 890-6007-1 MS

Matrix: Solid

Client Sample ID: BH03

Prep Type: Total/NA

Analysis Batch: 71999 Prep Batch: 71840

Sample	Sample	Spike	MS	MS				%Rec
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130
	Result <0.00199 <0.00199 <0.00199 <0.00398	Sample Sample Result Qualifier <0.00199	Result Qualifier Added <0.00199	Result Qualifier Added Result <0.00199	Result Qualifier Added Result Qualifier <0.00199	Result Qualifier Added Result Qualifier Unit <0.00199	Result Qualifier Added Result Qualifier Unit D <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec <0.00199

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 121
 70 - 130

 1,4-Difluorobenzene (Surr)
 106
 70 - 130

Lab Sample ID: 890-6007-1 MSD

Client Sample ID: BH03

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 71999 Prep Batch: 71840

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	< 0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	< 0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	< 0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 112
 70 - 130

 1,4-Difluorobenzene (Surr)
 119
 70 - 130

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

Lab Sample ID: MB 880-71622/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 71655

MB MB

Prep Batch: 71622

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
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 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 01/25/24 16:31
 01/26/24 07:06
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 (GRO)-C6-C10
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Client: Etech Environmental & Safety Solutions Job ID: 890-6007-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab	Sar	np	le	ID:	MB	880-7	1622/1-A	
		_						

Matrix: Solid

Analysis Batch: 71655

Client	Sample	ID:	Method	Blank
	•			

Prep Type: Total/NA
Prep Batch: 71622

ı		IVID							
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/25/24 16:31	01/26/24 07:06	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/24 16:31	01/26/24 07:06	1
н									

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	01/25/24 16:31	01/26/24 07:06	1
o-Terphenyl	129		70 - 130	01/25/24 16:31	01/26/24 07:06	1

Lab Sample ID: LCS 880-71622/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 71655

Prep Type: Total/NA Prep Batch: 71622 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 928.7 93 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 932.5 mg/Kg 93 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-71622/3-A

Matrix: Solid

Analysis Batch: 71655

Client S	Sample	e ID:	Lab	Con	trol	Samp	le	Du	p
				_	_	_			_

Prep Type: Total/NA

Prep Batch: 71622

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	878.9		mg/Kg		88	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	863.5		mg/Kg		86	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-6020-A-1-F MS

Matrix: Solid

Analysis Batch: 71655

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71622

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.5 U 1010 929.4 88 70 - 130 mg/Kg (GRO)-C6-C10 <50.5 U 1010 1269 124 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	119		70 - 130

Job ID: 890-6007-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: 890-6020-A-1-G MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Solid	Prep Type: Total/NA

Analysis Batch: 71655									Prep	Batch:	71622
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.5	U	1010	960.4		mg/Kg		91	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.5	U	1010	1262		mg/Kg		123	70 - 130	1	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 71737

	IVID	INID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/K	(g		01/29/24 01:55	1

Lab Sample ID: LCS 880-71577/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 71737

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	273.5	,	mg/Kg		109	90 - 110	

Lab Sample ID: LCSD 880-71577/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	272.7		mg/Kg		109	90 - 110	0	20	

Lab Sample ID: 890-6002-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	416		249	678.6		ma/Ka	_	105	90 - 110	

Lab Sample ID: 890-6002-A-3-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

Allalysis Datcil. 11131											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	416		249	680.3		mg/Kg		106	90 - 110		20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6007-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-6007-1	BH03	Total/NA	Solid	5035	
890-6007-2	BH03	Total/NA	Solid	5035	
890-6007-3	BH03	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-1 MS	BH03	Total/NA	Solid	5035	
890-6007-1 MSD	BH03	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Total/NA	Solid	8021B	71840
890-6007-2	BH03	Total/NA	Solid	8021B	71840
890-6007-3	BH03	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-1 MS	BH03	Total/NA	Solid	8021B	71840
890-6007-1 MSD	BH03	Total/NA	Solid	8021B	71840

Analysis Batch: 72117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Total/NA	Solid	Total BTEX	
890-6007-2	BH03	Total/NA	Solid	Total BTEX	
890-6007-3	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Total/NA	Solid	8015NM Prep	- rep Batch
890-6007-2	BH03	Total/NA	Solid	8015NM Prep	
890-6007-3	BH03	Total/NA	Solid	8015NM Prep	
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Total/NA	Solid	8015B NM	71622
890-6007-2	BH03	Total/NA	Solid	8015B NM	71622
890-6007-3	BH03	Total/NA	Solid	8015B NM	71622
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015B NM	71622
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71622

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6007-1 SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 71655 (Continued)

Lab Sample ID LCSD 880-71622/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Solid	Method 8015B NM	Prep Batch 71622
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71622
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71622

Analysis Batch: 71885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Total/NA	Solid	8015 NM	
890-6007-2	BH03	Total/NA	Solid	8015 NM	
890-6007-3	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Soluble	Solid	DI Leach	_
890-6007-2	BH03	Soluble	Solid	DI Leach	
890-6007-3	BH03	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6007-1	BH03	Soluble	Solid	300.0	71577
890-6007-2	BH03	Soluble	Solid	300.0	71577
890-6007-3	BH03	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	71577
890-6002-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71577

Eurofins Carlsbad

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Client: Etech Environmental & Safety Solutions

Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6007-1

SDG: Eddy County NM

Client Sample ID: BH03

Lab Sample ID: 890-6007-1

Matrix: Solid

Date Collected: 01/19/24 10:10 Date Received: 01/22/24 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 01:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72117	02/01/24 01:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			71885	01/26/24 15:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 15:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 03:25	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-6007-2

Date Collected: 01/19/24 10:15 Matrix: Solid Date Received: 01/22/24 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72117	02/01/24 02:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			71885	01/26/24 15:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 15:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71577	01/25/24 10:14	SA	EET MIC
Soluble	Analysis	300.0		1			71737	01/29/24 03:31	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-6007-3

Date Collected: 01/19/24 10:20 **Matrix: Solid** Date Received: 01/22/24 08:00

	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	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 02:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72117	02/01/24 02:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			71885	01/26/24 16:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 16:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 03:38	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6007-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400-23-26	06-30-24	
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
for which the agency do	oes not offer certification. Prep Method	Matrix	Analyte		
8015 NM	1 TOP MOUNTOU	Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6007-1

SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6007-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6007-1	BH03	Solid	01/19/24 10:10	01/22/24 08:00	0.5'
890-6007-2	BH03	Solid	01/19/24 10:15	01/22/24 08:00	1'
890-6007-3	BH03	Solid	01/19/24 10:20	01/22/24 08:00	2'

Project Navigacia Collect Memory Collect Navigacia Collect	.oc: 890 5007																
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Signature Safety Solutions, Inc Company Name WPX Energy Permian, LLC.	Project Manager:	Gilbert Moreno			Bill to:	if different		m Ralev				Ī		MM	W.xenco.com	Page .	1 01 1
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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6007-1

SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Login Number: 6007 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Page 21 of 22

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6007-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 6007

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/1/2024 10:23:23 AM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6008-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/1/2024 10:23:23 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6008-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

2

3

4

6

8

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10

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-6008-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

$\overline{}$	$\overline{}$	MOA
u	u	VUA
	_	

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Eurofins Carlsbad

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Job ID: 890-6008-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Eurofins Carlsbad Job ID: 890-6008-1

Job Narrative 890-6008-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:00 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH04 (890-6008-1) and BH04 (890-6008-2).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH04 (890-6008-1), BH04 (890-6008-2) and (890-6007-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

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: BH04 (890-6008-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1

Lab Sample ID: 890-6008-1

SDG: Eddy County NM

Matrix: Solid

Client Sample ID: BH04

Date Collected: 01/19/24 10:30 Date Received: 01/22/24 08:00

Sample Depth: 0.5'

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				01/29/24 13:46	02/01/24 02:59	1

Method: TAL SOP Total BTEX - Total	tal BTEX Calc	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 02:59	1

70 - 130

	Method: SW846 8015 NM - Diesel Ran	ge Organi	ics (DRO) (0	GC)					
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.7	U	49.7	mg/Kg			01/26/24 16:33	1

Method: SW846 8015B NM - Dies	el Range Orga	inics (DRO)) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 16:32	01/26/24 16:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 16:32	01/26/24 16:33	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 16:32	01/26/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
· · · · · · · · · · · · · · · · · · ·									

Method: EPA 300.0 - Anions, Ion Chromato	graphy - Soluble				
o-Terphenyl	136 S1+	70 - 130	01/25/24 16:32	01/26/24 16:33	1
1-Chlorooctane	112	70 - 130	01/25/24 16:32	01/26/24 16:33	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4010	25.1	mg/Kg			01/29/24 03:45	5

Client Sample ID: BH04 Date Collected: 01/19/24 10:40 Date Received: 01/22/24 08:00

72

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				01/29/24 13:46	02/01/24 03:24	

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Lab Sample ID: 890-6008-2

Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1

SDG: Eddy County NM

Client Sample ID: BH04

Lab Sample ID: 890-6008-2

01/25/24 16:32

Prepared

01/25/24 16:32

01/25/24 16:32

Date Collected: 01/19/24 10:40 Date Received: 01/22/24 08:00

Oll Range Organics (Over C28-C36)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Sample Depth: 2'

Method: SW846 8021B - Volatile	e Organic Comp	ounds (GC)) (Continued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130				01/29/24 13:46	02/01/24 03:24	1
— Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 03:24	1
Method: SW846 8015 NM - Dies Analyte Total TPH	•	Qualifier	GC) RL 49.7	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/26/24 16:57	Dil Fac
Method: SW846 8015B NM - Die Analyte	•	nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 16:32	01/26/24 16:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 16:32	01/26/24 16:57	1

01/26/24 16:57	1	
01/26/24 16:57	1	13
Analyzed	Dil Fac	
01/26/24 16:57	1	
01/26/24 16:57	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328	5.01	mg/Kg			01/29/24 03:52	1

49.7

Limits

70 - 130

70 - 130

mg/Kg

<49.7 U

%Recovery Qualifier

103

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-6008-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6007-A-1-C MS	Matrix Spike	121	106	
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119	
890-6008-1	BH04	139 S1+	72	
890-6008-2	BH04	136 S1+	92	
LCS 880-71840/1-A	Lab Control Sample	114	90	
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76	
MB 880-71638/5-A	Method Blank	62 S1-	90	
MB 880-71840/5-A	Method Blank	60 S1-	99	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acc
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6008-1	BH04	112	136 S1+	
890-6008-2	BH04	103	122	
890-6020-A-1-F MS	Matrix Spike	116	119	
890-6020-A-1-G MSD	Matrix Spike Duplicate	114	117	
LCS 880-71622/2-A	Lab Control Sample	86	109	
LCSD 880-71622/3-A	Lab Control Sample Dup	75	92	
MB 880-71622/1-A	Method Blank	108	129	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-6008-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A

Matrix: Solid

Analysis Batch: 71999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71638

1

Dil Fac

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	•

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

01/25/24 18:05 01/31/24 11:56 01/25/24 18:05 01/31/24 11:56

Prepared

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 71840

Analysis Batch: 71999

Matrix: Solid

Lab Sample ID: MB 880-71840/5-A

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	•
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130	01/29/24 13:46	02/01/24 01:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/29/24 13:46	02/01/24 01:16	1

Lab Sample ID: LCS 880-71840/1-A

Matrix: Solid

Analysis Batch: 71999

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 71840

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.09006		mg/Kg		90	70 - 130	
0.100	0.09510		mg/Kg		95	70 - 130	
0.100	0.1017		mg/Kg		102	70 - 130	
0.200	0.2105		mg/Kg		105	70 - 130	
0.100	0.1021		mg/Kg		102	70 - 130	
	0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.09006 0.100 0.09510 0.100 0.1017 0.200 0.2105	Added Result Qualifier 0.100 0.09006 0.100 0.09510 0.100 0.1017 0.200 0.2105	Added Result Qualifier Unit 0.100 0.09006 mg/Kg 0.100 0.09510 mg/Kg 0.100 0.1017 mg/Kg 0.200 0.2105 mg/Kg	Added Result Qualifier Unit D 0.100 0.09006 mg/Kg 0.100 0.09510 mg/Kg 0.100 0.1017 mg/Kg 0.200 0.2105 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09006 mg/Kg 90 0.100 0.09510 mg/Kg 95 0.100 0.1017 mg/Kg 102 0.200 0.2105 mg/Kg 105	Added Result Qualifier Unit D %Rec Limits 0.100 0.09006 mg/Kg 90 70 - 130 0.100 0.09510 mg/Kg 95 70 - 130 0.100 0.1017 mg/Kg 102 70 - 130 0.200 0.2105 mg/Kg 105 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: LCSD 880-71840/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Spike LCSD LCSD %Rec RPD Result Qualifier Added Unit %Rec Limits RPD Limit 0.100 0.07503 mg/Kg 75 70 - 130 18 35

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Page 9 of 21

Job ID: 890-6008-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-71840/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 71999 Prep Batch: 71840 LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.07644 76 70 - 130 35 mg/Kg 22 Ethylbenzene 0.100 0.08788 mg/Kg 88 70 - 130 15 35 0.200 0.1877 94 70 130 11 35 m-Xylene & p-Xylene mg/Kg

0.09988

mg/Kg

100

70 - 130

2

Prep Type: Total/NA

Prep Type: Total/NA

24

11

35

35

0.100

LCSD LCSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 76 70 - 130

Lab Sample ID: 890-6007-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

o-Xylene

Analysis Batch: 71999 Prep Batch: 71840

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U 0.0996 0.08577 ma/Ka 86 70 - 130 Toluene <0.00199 0.0996 0.1016 70 - 130 U mg/Kg 101 0.0996 Ethylbenzene < 0.00199 0.09580 mg/Kg 96 70 - 130 0.199 70 - 130 m-Xylene & p-Xylene <0.00398 UF1 0.2115 mg/Kg 106 o-Xylene <0.00199 U 0.0996 0.1120 mg/Kg 112 70 - 130

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 121 1,4-Difluorobenzene (Surr) 106 70 - 130

Lab Sample ID: 890-6007-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

<0.00398 UF1

<0.00199 U

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 71999 Prep Batch: 71840 Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene <0.00199 U 0.0990 0.1092 mg/Kg 110 70 - 130 24 35 Toluene <0.00199 U 0.0990 0.1134 mg/Kg 114 70 - 130 11 35 Ethylbenzene < 0.00199 0.0990 0.1280 mg/Kg 129 70 - 130 29 35

0.2696 F1

0.1245

mg/Kg

mg/Kg

136

126

70 - 130

70 - 130

Client Sample ID: Method Blank

0.198

0.0990

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 119 70 - 130

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

Matrix: Solid Analysis Batch: 71655

Lab Sample ID: MB 880-71622/1-A

MB MB

Analyte Qualifier RL MDL Unit Prepared Dil Fac Result Analyzed <50.0 Ū 50.0 01/25/24 16:31 01/26/24 07:06 Gasoline Range Organics mg/Kg (GRO)-C6-C10

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Prep Type: Total/NA

Prep Batch: 71622

35

Lab Sample ID: MB 880-71622/1-A

Matrix: Solid

Analysis Batch: 71655

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

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

Job ID: 890-6008-1 SDG: Eddy County NM

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 71622

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 71622

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1
	MP	МВ							
	IVID	INID							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 108 70 - 130 01/25/24 16:31 01/26/24 07:06 129 70 - 130 01/25/24 16:31 01/26/24 07:06 o-Terphenyl Lab Sample ID: LCS 880-71622/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Analysis Batch: 71655

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	928.7		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	932.5		mg/Kg		93	70 - 130	

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 86 o-Terphenyl 109 70 - 130

Lab Sample ID: LCSD 880-71622/3-A

Matrix: Solid

Analysis Batch: 71655						Prep	Prep Batch: 71622		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	878.9		mg/Kg		88	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	863.5		mg/Kg		86	70 - 130	8	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-6020-A-1-F MS

Matrix: Solid

Analysis Batch: 71655

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71622

MS MS Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.5 U 1010 70 - 130 Gasoline Range Organics 929.4 88 mg/Kg (GRO)-C6-C10 <50.5 U 1010 1269 Diesel Range Organics (Over mg/Kg 124 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	119		70 - 130

Client: Etech Environmental & Safety Solutions Job ID: 890-6008-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: 890-6020-A-1-	G MSD						Client S	ample II	D: Matrix S	pike Dup	licate
Matrix: Solid									Prep ⁻	Type: To	tal/NA
Analysis Batch: 71655									Prep	Batch:	71622
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Amalusta	Daguilé	Ouglition	A al al a al	Daguile	Ouglifier	11	_ n	0/ Dag	Limite	DDD	1 : 14

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1010	960.4		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.5	U	1010	1262		mg/Kg		123	70 - 130	1	20

MSD MSD Surrogate Qualifier Limits %Recovery

70 - 130 1-Chlorooctane 114 o-Terphenyl 117 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71577/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

мв мв MDL Unit Result Qualifier Analyte RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/29/24 01:55

Lab Sample ID: LCS 880-71577/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	273.5		mg/Kg		109	90 - 110	

Lab Sample ID: LCSD 880-71577/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	272.7		ma/Ka		100	90 110		20	

Lab Sample ID: 890-6008-2 MS Client Sample ID: BH04 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 71737

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	328		251	577.2		ma/Ka		100	90 110	

Lab Sample ID: 890-6008-2 MSD Client Sample ID: BH04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71737

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Analyte Result %Rec Limits RPD Limit Unit 251 577.7 Chloride 328 100 90 - 110 mg/Kg

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	5035	
890-6008-2	BH04	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	8021B	71840
890-6008-2	BH04	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	Total BTEX	
890-6008-2	BH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	8015NM Prep	
890-6008-2	BH04	Total/NA	Solid	8015NM Prep	
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	8015B NM	71622
890-6008-2	BH04	Total/NA	Solid	8015B NM	71622
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015B NM	71622
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71622
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71622
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71622
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71622

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1 SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 71886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Total/NA	Solid	8015 NM	
890-6008-2	BH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Soluble	Solid	DI Leach	
890-6008-2	BH04	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6008-2 MS	BH04	Soluble	Solid	DI Leach	
890-6008-2 MSD	BH04	Soluble	Solid	DI Leach	

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6008-1	BH04	Soluble	Solid	300.0	71577
890-6008-2	BH04	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6008-2 MS	BH04	Soluble	Solid	300.0	71577
890-6008-2 MSD	BH04	Soluble	Solid	300.0	71577

Eurofins Carlsbad

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Client Sample ID: BH04

Date Collected: 01/19/24 10:30

Date Received: 01/22/24 08:00

Client Sample ID: BH04

Date Collected: 01/19/24 10:40

Date Received: 01/22/24 08:00

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Lab Sample ID: 890-6008-1

Matrix: Solid

Job ID: 890-6008-1

Batch Batch Dil Initial Final Batch Prepared

Lab Sample ID: 890-6008-2

Matrix: Solid

Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 02:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72118	02/01/24 02:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			71886	01/26/24 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 16:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		5			71737	01/29/24 03:45	CH	EET MID

	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	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72118	02/01/24 03:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			71886	01/26/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 03:52	CH	FET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6008-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	ım	Identification Number	Expiration Date
Texas	NELAF)	T104704400-23-26	06-30-24
The following analytes	are included in this report, but	t the laboratory is not certif	ied by the governing authority. This lis	t may include analyte
• •	•	t the laberatory to het cortin	iod by the governing additionty. This he	t may molado analyto
• ,	pes not offer certification.	t are laberatory to not sorar	iod by the governing additionly. This ha	t may molado analyto
• .	•	Matrix	Analyte	t may include analyte
for which the agency d	pes not offer certification.	•	, , ,	They molecule analyte

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1

SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6008-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-6008-1	BH04	Solid	01/19/24 10:30	01/22/24 08:00	0.5'
890-6008-2	BH04	Solid	01/19/24 10:40	01/22/24 08:00	2'

					J	Chain of Custody	of Cu	stody						
107 - 4	CUTOTINS		No.		Houston	TX (281) 240-4	1200, Dalla	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	300		890-600	890-608		
	Tonan	MINEM	Simsai		Widland, TX	(432) 704-544	10, San Anto	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	-3334			o i all of	Custody	1111
	veno	0			EL Paso, Hobbs, NIA	FX (915) 585-3 1 (575) 392-75	443, Lubbox 50, Carisbar	EL Paso, TX (915) 585-3443, Lubbock, TX (909) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199		6008	mos osuex www	000	0.00	- 6
Project Manager.	Gilbert Moreno			Bill to: (if different)	(Ferent)	Jim Raley					Work	Work Order Comments	mments	5
Company Name:	eTECH Environmental & Safety Solutions, Inc	al & Safety So	lutions, Inc	Company Name:	Name:	WPX Ener	WPX Energy Permian, LLC.	n, LLC.		Program:	Program: UST/PST PRP Brownfields BRC	Brownfie	Ide BBC	Simonfind
Address:	13000 W County Rd 100	d 100		Address:		5315 Buena Vista Dr.	a Vista Dr			State of Project:	oject:		Town Town	
City, State ZIP:	Odessa, TX, 79765			City, State ZIP.	ZIP:	Carlsbad.	Carlsbad, NM. 88220	0		Reporting:	Reporting: Level II Level III PST/UST TRRP	U/TST/U	ST TRRP	W level IV
Phone:	832-541-7719		Email:	Devon-te	am@etec	Devon-team@etechenv.com. jim.ralev@dvn.com	im.raley@	2dvn.com		Deliverables	s EDD	ADaPT [D Other:	
Project Name:	East Pecos Federal Com 22 #007H	Com 22 #007F		Turn Around				ANA	ANALYSIS REQUEST	FOUEST			Proconception Codos	no Codoo
Project Number:	19579	6	☑ Routine	□ Rush	Pres.	-						N	None: NO	Di Water: Han
Project Location:	Eddy County, NM	by. NM	Due Date:	5 Day TAT								-	land land	MADOLI MA
Sampler's Name:	Gilbert Moreno	oreno	TAT starts the day received by	day receive								8 2	HCL: HC	HNO3: HN
SAMPI E DECEME	-			or to main	-							H	H2SO4; H2	NaOH: Na
Samples Received Intact	Intact (Voc) No		Wet loe.	Yes No	1							Hal	H₃PO₂: HP	
Cooler Custody Seals:	/ %	A Correction Factor:	actor.	ANNO.	D 50%		(0.00		_			Ø ď	NaHSO4: NABIS	
Sample Custody Seals:	U	A Lemperature Reading:	Reading:	2.4)E A			_		70	Zn Acetate ANa Old: Zn	.75
otal Containers:		Corrected Temperature:	mperature:	2.2			_	lor				Na	NaOH+Ascorbic Acid: SAPC	cid: SAPC
Sample Ide	Sample Identification Matrix	bate Sampled	Time	Depth G	Grab/ # of	8) H9T) X3T8	Chloric	001) XT					Sample Comments	mments
BH04		1.19.24	10:30	0.5'	Comp- 1	-	×							
BH04	904	1.19.24	10:40	2 2	-	×	×							
													Incident#	11#
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Total 200.7 / 6010	010 200.8 / 6020:	88	BRCRA 13PPM	V Texas 11	_	As Ba B	- B	Sh As Ba Bo C Co C: Es Dh Ma Ma Ni K	Es Dh	Ma Ma Mo	- N 00 N 1N		T. T. T.	
ircle Method(s) s	rcle Method(s) and Metal(s) to be analyzed	lyzed	TCLP / SPLP 6010: 8RCRA	LP 6010:	BRCRA	Sb As Ba	Be Cd	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo NI	Mn Mo	Ni Se Ag T	TI U Hg:	Hg: 1631 / 245.1		7.1
itice: Signature of this service. Eurofins Xen Eurofins Xenco. A mil	vitor: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be onforced unless previously negotiated.	nt of samples constitues of samples and a sample of sample of sample of sach br	flutes a valid purc shall not assume oject and a charg	hase order frames any responsi	om client co bility for any ch sample s	mpany to Eurofi losses or expe ubmitted to Eur	ns Xenco, its nses incurre ofins Xenco,	affiliates and sub- d by the client if su but not analyzed. "	contractors, i ch losses are These terms w	t assigns standard due to circumstan vill be enforced un	terms and condition: ces beyond the controless previously negoti	s ol ated.		
Relinquished by: (Signature)	v: (Signature)	Received by: (S	by: (Signature)	re)		Date/Tinje		Relinquished by: (Signature)	by: (Signat	ure)	Received by: (Signature)	gnature)	Dai	Date/Time
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													Davidson J Darks, NO.	00000

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6008-1

SDG Number: Eddy County NM

Login Number: 6008 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6008-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Login Number: 6008 List Number: 2

Creator: Rodriguez, Leticia

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	
s 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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Etech Environmental & Safety Solutions
PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:23:41 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6000-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Companies

Page 2 of 29 2/2/2024

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6000-1 SDG: Eddy County NM

Table of Contents

1
3
4
5
7
12
13
19
22
24
25
26
27
28

Eurofins Carlsbad 2/2/2024

Definitions/Glossary

Job ID: 890-6000-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. MS/MSD RPD exceeds control limits F2

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

DLC

TFO

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

Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA

Minimum Detectable Concentration (Radiochemistry) MDC MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

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

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Quotient (Dioxin)

RPD Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin) TEF

TNTC Too Numerous To Count

Job ID: 890-6000-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Job ID: 890-6000-1 Eurofins Carlsbad

Job Narrative 890-6000-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:20 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH05 (890-6000-1), BH05 (890-6000-2), BH06 (890-6000-3), BH06 (890-6000-4), BH07 (890-6000-5) and BH07 (890-6000-6).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72099 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-72133/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72099 and analytical batch 880-72133 was outside the control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71830 and analytical batch 880-72093 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH05 (890-6000-1), BH05 (890-6000-2), BH06 (890-6000-3), BH06 (890-6000-4), BH07 (890-6000-5), BH07 (890-6000-6), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20) and (CCV 880-72087/5). 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.

Eurofins Carlsbad

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14

Case Narrative

Client: Etech Environmental & Safety Solutions

Project: East Pecos Federal Com 22 #007H

Job ID: 890-6000-1

Job ID: 890-6000-1 (Continued)

Eurofins Carlsbad

HPLC/IC

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

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

Client Sample ID: BH05

Lab Sample ID: 890-6000-1

Matrix: Solid

Date Collected: 01/19/24 10:50 Date Received: 01/22/24 08:20

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/29/24 13:34	02/01/24 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				01/29/24 13:34	02/01/24 18:07	1
1,4-Difluorobenzene (Surr)	79		70 - 130				01/29/24 13:34	02/01/24 18:07	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/01/24 18:07	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/01/24 12:43	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/25/24 09:18	02/01/24 12:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/25/24 09:18	02/01/24 12:43	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/25/24 09:18	02/01/24 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130				01/25/24 09:18	02/01/24 12:43	1
o-Terphenyl	147	S1+	70 - 130				01/25/24 09:18	02/01/24 12:43	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	

Client Sample ID: BH05

Date Collected: 01/19/24 11:00

Date Received: 01/22/24 08:20

Sample Depth: 2'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:34	02/01/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/29/24 13:34	02/01/24 18:27	1

5.02

152

mg/Kg

Eurofins Carlsbad

01/28/24 23:45

Lab Sample ID: 890-6000-2

Matrix: Solid

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6000-1 SDG: Eddy County NM

Lab Sample ID: 890-6000-2

Client Sample ID: BH05

Date Collected: 01/19/24 11:00 Date Received: 01/22/24 08:20

Sample Depth: 2'

 - dip.	 	
	Matrix:	Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76	70 - 130	01/29/24 13:34	02/01/24 18:27	1

Method: TAL SOP 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		_	02/01/24 18:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/01/24 13:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 13:04	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 13:04	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	01/25/24 09	02/01/24 13:04	1
o-Terphenyl	139	S1+	70 - 130	01/25/24 09	9:18 02/01/24 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	120		5.01		mg/Kg			01/28/24 23:52	1

Lab Sample ID: 890-6000-3 Client Sample ID: BH06

Date Collected: 01/19/24 11:10 Date Received: 01/22/24 08:20

Sample Depth: 0.5'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
Toluene	<0.00198	U	0.00198	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
Ethylbenzene	<0.00198	U	0.00198	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
o-Xylene	<0.00198	U	0.00198	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
Xylenes, Total	<0.00396	U	0.00396	mg	g/Kg		01/29/24 13:34	02/01/24 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				01/29/24 13:34	02/01/24 18:48	1
4.4.Diff	00		70 400				04/00/04 40:04	00/04/04 40:40	

4-Bromofluorobenzene (Surr)	78	 70 - 130	01/29/24 13:34	02/01/24 18:48	1
1,4-Difluorobenzene (Surr)	80	70 - 130	01/29/24 13:34	02/01/24 18:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			02/01/24 18:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/24 13:26	1

Eurofins Carlsbad

Matrix: Solid

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

Lab Sample ID: 890-6000-3

Matrix: Solid

Client Sample ID: BH06

Date Collected: 01/19/24 11:10

Date Received: 01/22/24 08:20 Sample Depth: 0.5'

15.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:26	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130				01/25/24 09:18	02/01/24 13:26	1
o-Terphenyl	132	S1+	70 - 130				01/25/24 09:18	02/01/24 13:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Dogult.	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

4.99

Lab Sample ID: 890-6000-4

mg/Kg

01/29/24 00:13

Matrix: Solid

Date Collected: 01/19/24 11:20 Date Received: 01/22/24 08:20

Client Sample ID: BH06

Sample Depth: 2'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
Toluene	< 0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				02/01/24 09:30	02/02/24 05:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/01/24 09:30	02/02/24 05:39	1
Method: TAL SOP Total BTEX - To	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/24 05:39	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/24 13:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:47	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 09:18	02/01/24 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				01/25/24 09:18	02/01/24 13:47	1
o-Terphenyl	119		70 - 130				01/25/24 09:18	02/01/24 13:47	1

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

Lab Sample ID: 890-6000-4

Matrix: Solid

Matrix: Solid

Client Sample ID: BH06

Date Collected: 01/19/24 11:20 Date Received: 01/22/24 08:20

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8		4.97		mg/Kg			01/29/24 00:20	1

Client Sample ID: BH07 Lab Sample ID: 890-6000-5

Date Collected: 01/19/24 11:30 Date Received: 01/22/24 08:20

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 04:46	
Toluene	< 0.00199	U F2	0.00199		mg/Kg		02/01/24 09:30	02/02/24 04:46	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 04:46	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/01/24 09:30	02/02/24 04:46	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 04:46	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/01/24 09:30	02/02/24 04:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	129		70 - 130				02/01/24 09:30	02/02/24 04:46	
1,4-Difluorobenzene (Surr)	122		70 - 130				02/01/24 09:30	02/02/24 04:46	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/24 04:46	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
• •		ics (DRO) (G	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
: Method: SW846 8015 NM - Diese		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/01/24 14:08	
Method: SW846 8015 NM - Diese Analyte	Result <50.4	Qualifier U	RL	MDL		<u>D</u>	Prepared		Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.4	Qualifier U	RL			<u>D</u>	Prepared Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <50.4	Qualifier Unics (DRO) Qualifier	RL 50.4		mg/Kg			02/01/24 14:08	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.4 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.4 (GC)		mg/Kg		Prepared	02/01/24 14:08 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.4 sel Range Orga Result <50.4	Qualifier U nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4		mg/Kg Unit mg/Kg		Prepared 01/25/24 09:18	02/01/24 14:08 Analyzed 02/01/24 14:08	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result	Qualifier U nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18	02/01/24 14:08 Analyzed 02/01/24 14:08 02/01/24 14:08	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.4 (GC) RL 50.4 50.4		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	02/01/24 14:08 Analyzed 02/01/24 14:08 02/01/24 14:08 02/01/24 14:08	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.4	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.4		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared	02/01/24 14:08 Analyzed 02/01/24 14:08 02/01/24 14:08 02/01/24 14:08 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.4	Qualifier U nics (DRO) Qualifier U U Qualifier S1+	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	02/01/24 14:08 Analyzed 02/01/24 14:08 02/01/24 14:08 02/01/24 14:08 Analyzed 02/01/24 14:08	Dil Fa

Eurofins Carlsbad

01/29/24 00:40

4.95

mg/Kg

64.7

Chloride

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

L

Matrix: Solid

Lab	Sample	ID:	890-6000-6	
			Matrix: Calid	

Sample Depth: 2'

Client Sample ID: BH07

Date Collected: 01/19/24 11:40

Date Received: 01/22/24 08:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/01/24 09:30	02/02/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				02/01/24 09:30	02/02/24 05:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/01/24 09:30	02/02/24 05:12	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Blackhoods CNNO4C CO4E NIM - Diagra	.l D O	: (DDO) (20)						
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8						
			49.0		mg/Kg			02/01/24 14:29	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)			mg/Kg			02/01/24 14:29	1
	•	nics (DRO) Qualifier		MDL		D	Prepared	02/01/24 14:29 Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	(GC)	MDL		<u>D</u>	Prepared 01/25/24 09:18		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	(GC)	MDL	Unit	<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	(GC) RL 49.8	MDL	Unit mg/Kg	<u> </u>	01/25/24 09:18	Analyzed 02/01/24 14:29	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U U	(GC) RL 49.8	MDL	Unit mg/Kg mg/Kg	<u> </u>	01/25/24 09:18	Analyzed 02/01/24 14:29 02/01/24 14:29	1
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	Qualifier U U U	(GC) RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	Analyzed 02/01/24 14:29 02/01/24 14:29 02/01/24 14:29	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 %Recovery	Qualifier U U U Qualifier	(GC) RL 49.8 49.8 49.8 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared	Analyzed 02/01/24 14:29 02/01/24 14:29 02/01/24 14:29 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0 <45.0	Qualifier U U U Qualifier S1+	(GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 14:29 02/01/24 14:29 02/01/24 14:29 Analyzed 02/01/24 14:29	1 1 1 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 U U Qualifier S1+	(GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	Analyzed 02/01/24 14:29 02/01/24 14:29 02/01/24 14:29 Analyzed 02/01/24 14:29	1 1 1 Dil Fac

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-6000-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-38339-A-101-C MS	Matrix Spike	116	99	
880-38339-A-101-D MSD	Matrix Spike Duplicate	118	104	
890-6000-1	BH05	78	79	
890-6000-2	BH05	77	76	
890-6000-3	BH06	78	80	
890-6000-4	BH06	109	98	
390-6000-5	BH07	129	122	
390-6000-5 MS	BH07	85	73	
390-6000-5 MSD	BH07	112	91	
390-6000-6	BH07	129	99	
_CS 880-71830/1-A	Lab Control Sample	119	101	
_CS 880-72099/1-A	Lab Control Sample	113	77	
LCSD 880-71830/2-A	Lab Control Sample Dup	118	103	
_CSD 880-72099/2-A	Lab Control Sample Dup	119	97	
MB 880-71830/5-A	Method Blank	72	86	
MB 880-71831/5-A	Method Blank	72	122	
	Method Blank	57 S1-	94	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5998-A-61-B MS	Matrix Spike	147 S1+	108	
390-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105	
390-6000-1	BH05	172 S1+	147 S1+	
390-6000-2	BH05	174 S1+	139 S1+	
390-6000-3	BH06	167 S1+	132 S1+	
390-6000-4	BH06	151 S1+	119	
390-6000-5	BH07	157 S1+	125	
390-6000-6	BH07	156 S1+	125	
_CS 880-71569/2-A	Lab Control Sample	117	99	
_CSD 880-71569/3-A	Lab Control Sample Dup	118	110	
MB 880-71569/1-A	Method Blank	159 S1+	124	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71830/5-A

Matrix: Solid Analysis Batch: 72093 Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 890-6000-1

Prep Batch: 71830

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:34	02/01/24 10:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/29/24	1 13:34	02/01/24 10:52	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/29/24	1 13:34	02/01/24 10:52	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-71830/1-A

Matrix: Solid

Analysis Batch: 72093

Prep Type: Total/NA

Prep Batch: 71830

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09795		mg/Kg		98	70 - 130	
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1207		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	0.200	0.2505		mg/Kg		125	70 - 130	
o-Xylene	0.100	0.1200		mg/Kg		120	70 - 130	

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-71830/2-A

Matrix: Solid

Analysis Batch: 72093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71830

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09384		mg/Kg		94	70 - 130	4	35
Toluene	0.100	0.09496		mg/Kg		95	70 - 130	8	35
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130	7	35
o-Xylene	0.100	0.1120		mg/Kg		112	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-38339-A-101-C MS

Matrix: Solid

Analysis Batch: 72093

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 71830

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08277		mg/Kg		83	70 - 130	
Toluene	<0.00201	U	0.100	0.08249		mg/Kg		82	70 - 130	

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Page 13 of 29

Job ID: 890-6000-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: 880-38339-A-101-C MS

Lab Sample ID: 880-38339-A-101-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 72093

Analysis Batch: 72093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71830

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.100 0.09763 97 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 0.200 0.1967 mg/Kg 98 70 - 130 0.100 o-Xylene <0.00201 U 0.09515 95 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	116		70 - 130	
1,4-Difluorobenzene (Surr)	99		70 - 130	

Client Sample ID: Matrix Spike Duplicate

70 - 130

125

mg/Kg

Prep Type: Total/NA

Prep Batch: 71830

26

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.0990 Benzene <0.00201 U 0.1095 mg/Kg 111 70 - 130 28 35 0.1078 Toluene <0.00201 0.0990 mg/Kg 109 70 - 130 27 35 Ethylbenzene <0.00201 U 0.0990 0.1249 mg/Kg 126 70 - 130 25 35 0.198 0.2585 F1 27 m-Xylene & p-Xylene <0.00402 U F1 mg/Kg 131 70 - 130 35

0.1237

0.0990

MSD MSD

<0.00201 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: MB 880-71831/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 72133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71831

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1

MB MB

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	01/29/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122	70 - 130	01/29/24 13:41	02/01/24 14:51	1

Lab Sample ID: MB 880-72099/5-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72099

мв мв Result Qualifier Dil Fac Analyte MDL Unit Prepared RL Analyzed Benzene <0.00200 U 0.00200 02/01/24 09:30 02/02/24 04:20 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 02/01/24 09:30 02/02/24 04:20 Ethylbenzene <0.00200 U 0.00200 mg/Kg 02/01/24 09:30 02/02/24 04:20 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/01/24 09:30 02/02/24 04:20

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

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

Lab Sample ID: MB 880-72099/5-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72099

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/01/24 09:30	02/02/24 04:20	1

MR MR

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	02/01/24 09:30	02/02/24 04:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/01/24 09:30	02/02/24 04:20	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-72099/1-A

Lab Sample ID: LCSD 880-72099/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72133

Analysis Batch: 72133

Prep Type: Total/NA

Prep Batch: 72099

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09326		mg/Kg		93	70 - 130	
Toluene	0.100	0.09349		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2349		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1275		mg/Kg		128	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	77	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72099

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 95 Benzene 0.100 0.09486 mg/Kg 70 - 130 2 35 Toluene 0.100 0.09056 mg/Kg 91 70 - 130 3 35 Ethylbenzene 0.100 0.09657 mg/Kg 97 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2507 mg/Kg 125 70 - 130 35 o-Xylene 0.100 0.1144 mg/Kg 114 70 - 130

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-6000-5 MS **Client Sample ID: BH07**

Matrix: Solid

Analysis Batch: 72133

Prep Type: Total/NA Prep Batch: 72099

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.07697		mg/Kg		77	70 - 130	
Toluene	<0.00199	U F2	0.0996	0.07119		mg/Kg		71	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.08151		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1797		mg/Kg		90	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08490		mg/Kg		85	70 - 130	

Prep Batch: 72099

QC Sample Results

Job ID: 890-6000-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: 890-6000-5 MS **Client Sample ID: BH07 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 72133

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 890-6000-5 MSD **Client Sample ID: BH07**

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 72133 Prep Batch: 72099

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.08463		mg/Kg		85	70 - 130	9	35
Toluene	< 0.00199	U F2	0.0990	0.1025	F2	mg/Kg		104	70 - 130	36	35
Ethylbenzene	<0.00199	U	0.0990	0.1019		mg/Kg		103	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2287		mg/Kg		115	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1063		mg/Kg		107	70 - 130	22	35
	MSD	MSD									

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 91 70 - 130

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

MB MB

Lab Sample ID: MB 880-71569/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 72087 Prep Batch: 71569

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1

MB MB Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 1-Chlorooctane 159 S1+ 70 - 130 01/25/24 09:18 02/01/24 07:59 o-Terphenyl 124 70 - 130 01/25/24 09:18 02/01/24 07:59

Lab Sample ID: LCS 880-71569/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 72087 Prep Batch: 71569

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 1166 117 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1258 mg/Kg 126 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate

1-Chlorooctane 117 70 - 130 70 - 130 o-Terphenyl 99

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C10-C28)

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 71569

Client Sample ID: Lab Control Sample Dup

Job ID: 890-6000-1

Prep Type: Total/NA

Prep Batch: 71569

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

Lab Sample ID: LCSD 880-71569/3-A

Matrix: Solid

Analysis Batch: 72087

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1051		mg/Kg		105	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1136		mg/Kg		114	70 - 130	10	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-5998-A-61-B MS

Matrix: Solid

Analysis Batch: 72087

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1136		mg/Kg		108	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.3	U F1	1010	1469	F1	mg/Kg		143	70 - 130	

	IVIS	IVIS			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	147	S1+	70 - 130		
o-Terphenyl	108		70 - 130		

Lab Sample ID: 890-5998-A-61-C MSD

Cheft Sample ID. Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71569

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.3	U	1010	1133		mg/Kg		108	70 - 130	0	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.3	U F1	1010	1497	F1	mg/Kg		146	70 - 130	2	20	
C10-C28)												

	III.OD			
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane	150	S1+	70 - 130	
o-Terphenyl	105		70 - 130	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71573/1-A

MSD MSD

Matrix: Solid

Analysis Batch: 71736

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 21:56	1

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Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH05

Client Sample ID: BH05

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Job ID: 890-6000-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-71573/2-A **Matrix: Solid**

Analysis Batch: 71736

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 272.1 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71573/3-A **Matrix: Solid**

Analysis Batch: 71736

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 273.7 mg/Kg 109 90 - 110

Lab Sample ID: 890-6000-2 MS

Matrix: Solid

Analysis Batch: 71736

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 120 251 376.3 102 90 - 110 mg/Kg

Lab Sample ID: 890-6000-2 MSD

Matrix: Solid

Analysis Batch: 71736

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 375.2 Chloride 120 251 102 90 - 110 0 20 mg/Kg

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Total/NA	Solid	5035	
890-6000-2	BH05	Total/NA	Solid	5035	
890-6000-3	BH06	Total/NA	Solid	5035	
MB 880-71830/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38339-A-101-C MS	Matrix Spike	Total/NA	Solid	5035	
880-38339-A-101-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 72093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Total/NA	Solid	8021B	71830
890-6000-2	BH05	Total/NA	Solid	8021B	71830
890-6000-3	BH06	Total/NA	Solid	8021B	71830
MB 880-71830/5-A	Method Blank	Total/NA	Solid	8021B	71830
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	8021B	71830
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71830
880-38339-A-101-C MS	Matrix Spike	Total/NA	Solid	8021B	71830
880-38339-A-101-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71830

Prep Batch: 72099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-4	BH06	Total/NA	Solid	5035	
890-6000-5	BH07	Total/NA	Solid	5035	
890-6000-6	BH07	Total/NA	Solid	5035	
MB 880-72099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6000-5 MS	BH07	Total/NA	Solid	5035	
890-6000-5 MSD	BH07	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-4	BH06	Total/NA	Solid	8021B	72099
890-6000-5	BH07	Total/NA	Solid	8021B	72099
890-6000-6	BH07	Total/NA	Solid	8021B	72099
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
MB 880-72099/5-A	Method Blank	Total/NA	Solid	8021B	72099
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	8021B	72099
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72099
890-6000-5 MS	BH07	Total/NA	Solid	8021B	72099
890-6000-5 MSD	BH07	Total/NA	Solid	8021B	72099

Analysis Batch: 72207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Total/NA	Solid	Total BTEX	
890-6000-2	BH05	Total/NA	Solid	Total BTEX	

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mo Ganobaa

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1 SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 72207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-3	BH06	Total/NA	Solid	Total BTEX	
890-6000-4	BH06	Total/NA	Solid	Total BTEX	
890-6000-5	BH07	Total/NA	Solid	Total BTEX	
890-6000-6	BH07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Total/NA	Solid	8015NM Prep	
890-6000-2	BH05	Total/NA	Solid	8015NM Prep	
890-6000-3	BH06	Total/NA	Solid	8015NM Prep	
890-6000-4	BH06	Total/NA	Solid	8015NM Prep	
890-6000-5	BH07	Total/NA	Solid	8015NM Prep	
890-6000-6	BH07	Total/NA	Solid	8015NM Prep	
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Total/NA	Solid	8015B NM	71569
890-6000-2	BH05	Total/NA	Solid	8015B NM	71569
890-6000-3	BH06	Total/NA	Solid	8015B NM	71569
890-6000-4	BH06	Total/NA	Solid	8015B NM	71569
890-6000-5	BH07	Total/NA	Solid	8015B NM	71569
890-6000-6	BH07	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-6000-1	BH05	Total/NA	Solid	8015 NM	
890-6000-2	BH05	Total/NA	Solid	8015 NM	
890-6000-3	BH06	Total/NA	Solid	8015 NM	
890-6000-4	BH06	Total/NA	Solid	8015 NM	
890-6000-5	BH07	Total/NA	Solid	8015 NM	
890-6000-6	BH07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Soluble	Solid	DI Leach	
890-6000-2	BH05	Soluble	Solid	DI Leach	
890-6000-3	BH06	Soluble	Solid	DI Leach	
890-6000-4	BH06	Soluble	Solid	DI Leach	

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Page 20 of 29

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 71573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-5	BH07	Soluble	Solid	DI Leach	
890-6000-6	BH07	Soluble	Solid	DI Leach	
MB 880-71573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6000-2 MS	BH05	Soluble	Solid	DI Leach	
890-6000-2 MSD	BH05	Soluble	Solid	DI Leach	

Analysis Batch: 71736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6000-1	BH05	Soluble	Solid	300.0	71573
890-6000-2	BH05	Soluble	Solid	300.0	71573
890-6000-3	BH06	Soluble	Solid	300.0	71573
890-6000-4	BH06	Soluble	Solid	300.0	71573
890-6000-5	BH07	Soluble	Solid	300.0	71573
890-6000-6	BH07	Soluble	Solid	300.0	71573
MB 880-71573/1-A	Method Blank	Soluble	Solid	300.0	71573
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	300.0	71573
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71573
890-6000-2 MS	BH05	Soluble	Solid	300.0	71573
890-6000-2 MSD	BH05	Soluble	Solid	300.0	71573

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Lab Sample ID: 890-6000-1

Matrix: Solid

Job ID: 890-6000-1

SDG: Eddy County NM

Client Sample ID: BH05 Date Collected: 01/19/24 10:50 Date Received: 01/22/24 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/01/24 18:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			72230	02/01/24 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 12:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/28/24 23:45	CH	EET MID

Client Sample ID: BH05 Lab Sample ID: 890-6000-2

Date Collected: 01/19/24 11:00 Matrix: Solid

Date Received: 01/22/24 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/01/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72230	02/01/24 13:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 13:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/28/24 23:52	CH	EET MID

Client Sample ID: BH06 Lab Sample ID: 890-6000-3 Date Collected: 01/19/24 11:10 **Matrix: Solid**

Date Received: 01/22/24 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/01/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			72230	02/01/24 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 13:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 00:13	CH	EET MIC

Client Sample ID: BH06 Lab Sample ID: 890-6000-4

Date Collected: 01/19/24 11:20 Date Received: 01/22/24 08:20

	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	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/02/24 05:39	SM	EET MID

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Page 22 of 29

Matrix: Solid

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Lab Sample ID: 890-6000-4

Client Sample ID: BH06

Matrix: Solid

Job ID: 890-6000-1

SDG: Eddy County NM

Date Collected: 01/19/24 11:20 Date Received: 01/22/24 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72230	02/01/24 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 13:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 00:20	CH	EET MID

Lab Sample ID: 890-6000-5

Matrix: Solid

Date Collected: 01/19/24 11:30 Date Received: 01/22/24 08:20

Client Sample ID: BH07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/02/24 04:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			72230	02/01/24 14:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 14:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 00:40	CH	EET MID

Lab Sample ID: 890-6000-6

Matrix: Solid

Date Collected: 01/19/24 11:40 Date Received: 01/22/24 08:20

Client Sample ID: BH07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 05:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72207	02/02/24 05:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			72230	02/01/24 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 14:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 00:47	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date
Texas	NELA	P	T104704400-23-26	06-30-24
,	are included in this report, but	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6000-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6000-1	BH05	Solid	01/19/24 10:50	01/22/24 08:20	0.5'
890-6000-2	BH05	Solid	01/19/24 11:00	01/22/24 08:20	2'
890-6000-3	BH06	Solid	01/19/24 11:10	01/22/24 08:20	0.5'
890-6000-4	BH06	Solid	01/19/24 11:20	01/22/24 08:20	2'
890-6000-5	BH07	Solid	01/19/24 11:30	01/22/24 08:20	0.5'
890-6000-6	BH07	Solid	01/19/24 11:40	01/22/24 08:20	2'

Program: UST/PST | PRP | Brownfields | RRC | Superfund |

Work Order Comments

Page

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60000

890-6000 Chain of Custody

Level IN

Reporting: Level !! | Level !!| | PST/UST | TRRP |

DI Water: H2O MeOH: Me HNO₃: HN NaOH: Na

None: NO Cool: Cool HCL: HC H2S04: H2 NaHSO4: NABIS

H3PO4: HP

Parameters

MMOS Yes No

Yes No NIA Correction Factor:

Samples Received Intact: SAMPLE RECEIPT

Wet Ice:

(Yes) No

TAT starts the day received by the lab, if received by 4:30pm Due Date: 5 Day TAT

Rush

✓ Routine

Turn Around

ast Pecos Federal Com 22 #007H

19579

Eddy County, NM

Project Location: Sampler's Name:

WO#

Project Number Project Name:

Gilbert Moreno

21277645 Jemp-Blank:

Preservative Codes

Other

ADaPT [

Deliverables: EDD

Email: Devon-team@etechenv.com, jim.ralev@dvn.com

Carlsbad, NM, 88220 5315 Buena Vista Dr.

City, State ZIP:

Address

ANALYSIS REQUEST

State of Project:

WPX Energy Permian, LLC.

Jim Raley

Bill to. (if different) Company Name:

eTECH Environmental & Safety Solutions, Inc

Gilbert Moreno

Project Manager. Company Name: 13000 W County Rd 100

Odessa, TX, 79765

City, State ZIP;

Phone:

Address:

832-541-7719

Cooler Custody Seals: Yes No Sample Custody Seals: Yes No Total Containers:	~ N	N/A Correction Factor:	actor:	10.0		ba		0.0		_		Merico 4. INABIO
Seals: Yes												
otal Containers:	No N/A	N/A Temperature Re	Reading:	20				06 4			_	Na2S2O3: NaSO3
		Corrected Temperature;	emperature:	3.0	2	(9)	-	_				Zn Acetate+NaOH; Zn
Sample Identification	Matrix	Date	Time	Depth	Grab/	08) Ho	LEX (8	epholo	9001)			NaOn+Ascorbic Acid: SAPC
BH05	S	1.19.24	10:50		Grab/		+	+				sample Comments
BH05	S	1.19.24	11:00		Grab/	X	+	< ×				
BH06	S	1.19.24	11:10			X	+	×				
BH06	S	1.19.24	11:20	2	Grab/	×		×		-	+	lucident#
BH07	S	1.19.24	11:30	0.5'	Grab/	×	+	×		-		nAPP2400434204
BH07	S	1.19.24	11:40	ž	Grab/	×	×	×			+	
								+				
	1		1	1	-	+		+				
Carlo	2					-		+				
1					-	-		1		-		
Total 200.7 / 6010 200.8 / 6020:	6020:	RR	RECEA 13DDI	M Town	14	- 10		-				
9	be analyz		TCLP / SP	LP 6010	BRCR	Sp As	As Ba L	36 Cd	CLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Ca Cr Co Cu Pb Mn Mn Ni Sa An Ti II	Mg Mn Mo Ni I	K Se Ag SiO ₂ N	a Sr Tl Sn U V Zn
Notice: Signature of this document and relinquishment of samples constitute:	quishment of	samples constil		hace order	from ellant					8 8	118. 1831 /	ng. 1031 / 243.1 / 74/0 / 74/1
of service. Eurofins 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 the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, that not included. These terms will be arthread makes a resolution.	for the cost	of samples and opplied to each pr	shall not assume oject and a charg	any respon	nsibility for a	any losse.	or expens	es incurrei ins Xenco,	not assume any responsibility for any losses or expenses incurred by the client if each losses not also bettered to the control and a charge of \$5 for each sample submitted to Euroffin Sence, but not analyzed. These terms will be entherned in the expense or expenses incurred by the client if each losses are due to clientifications submitted to Euroffin Sence, but not analyzed. These terms will be entherned in these was controlled.	t assigns standard term due to circumstances b	eyond the control	
Relinquished by: (Signature)	1	> Received by	by: (Signature)	ire)		Date	Date/Time		Relinquiched by: /Signature	1	de la constante de la constant	
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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 508-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 992-9366

Loc: 890 0009 CHYROMERE

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6000-1

SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Login Number: 6000 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Euronnis Cansbau

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6000-1

SDG Number: Eddy County NM

List Creation: 01/23/24 12:33 PM

List Source: Eurofins Midland

Login Number: 6000 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Etech Environmental & Safety Solutions
PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:23:41 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6001-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/2/2024 12:23:41 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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Page 2 of 23

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6001-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

1

2

3

4

6

8

40

11

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-6001-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Qualifiers

GC VOA	
Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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.
GC Somi VC	24

GC Semi VOA

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

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
n	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)

EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

WIOL	El // Coolimenaca Maximum Contaminant Ecver
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NC	Not Calculated

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

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

PRES	Presumptive
QC	Quality Control

RER Relative Error Ratio (R	Radiochemistry)
-----------------------------	-----------------

DI	Reporting Limit or Requested Limit (Radiochemistry)
IXL	Reporting Little of Requested Little (Radiochemistry)

RPD	Relative Percent Difference, a measure of the relative difference between two points
INI D	relative i electit billerence, a measure of the relative unlerence between two points

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

TNTC Too Numerous To Count

Job ID: 890-6001-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Job ID: 890-6001-1 Eurofins Carlsbad

Job Narrative 890-6001-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:34 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-6001-1), FS02 (890-6001-2) and FS03 (890-6001-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72099 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-6001-1), FS03 (890-6001-3) and (CCV 880-72133/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72099 and analytical batch 880-72133 was outside the control limits.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-6001-1), FS02 (890-6001-2), FS03 (890-6001-3), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20), (CCV 880-72087/31) and (CCV 880-72087/5). 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71573 and analytical batch 880-71736 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was

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Case Narrative

Project: East Pecos Federal Com 22 #007H

Client: Etech Environmental & Safety Solutions Job ID: 890-6001-1

Job ID: 890-6001-1 (Continued)

Eurofins Carlsbad

within acceptance limits.

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

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6001-1

SDG: Eddy County NM

Client Sample ID: FS01

Lab Sample ID: 890-6001-1

Date Collected: 01/19/24 11:50 Date Received: 01/22/24 08:34 Matrix: Solid

Sample Depth: 0-0.25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
Toluene	< 0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/01/24 09:30	02/02/24 06:05	1
1,4-Difluorobenzene (Surr)	117		70 - 130				02/01/24 09:30	02/02/24 06:05	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		_ `	GC)			_			
Total TPH	Result 62.5	Qualifier	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/01/24 15:12	
	62.5		RL 49.8	MDL		<u>D</u>	Prepared		
Total TPH	62.5 sel Range Orga Result	nics (DRO) Qualifier	RL 49.8			<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Die	62.5 sel Range Orga	nics (DRO) Qualifier	RL 49.8 (GC)		mg/Kg	=		02/01/24 15:12	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	62.5 sel Range Orga Result	nics (DRO) Qualifier	(GC)		mg/Kg	=	Prepared	02/01/24 15:12 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.8	nics (DRO) Qualifier	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg	=	Prepared 01/25/24 09:18	02/01/24 15:12 Analyzed 02/01/24 15:12	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.8 62.5	nics (DRO) Qualifier	RL 49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/24 09:18 01/25/24 09:18	02/01/24 15:12 Analyzed 02/01/24 15:12 02/01/24 15:12	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	62.5 sel Range Orga Result <49.8 62.5 <49.8	nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18	02/01/24 15:12 Analyzed 02/01/24 15:12 02/01/24 15:12 02/01/24 15:12	Dil Face 1 1 1 Dil Face
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	62.5 sel Range Orga Result <49.8 62.5 <49.8 %Recovery	Qualifier U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared	Analyzed 02/01/24 15:12 Analyzed 02/01/24 15:12 02/01/24 15:12 02/01/24 15:12 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	62.5 sel Range Orga Result <49.8 62.5 49.8 %Recovery 164 133	U Qualifier U Qualifier S1+ S1+	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	02/01/24 15:12 Analyzed 02/01/24 15:12 02/01/24 15:12 02/01/24 15:12 Analyzed 02/01/24 15:12	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	62.5 sel Range Orga Result <49.8 62.5 <49.8	U Qualifier U Qualifier S1+ S1+	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 01/25/24 09:18 01/25/24 09:18 01/25/24 09:18 Prepared 01/25/24 09:18	02/01/24 15:12 Analyzed 02/01/24 15:12 02/01/24 15:12 02/01/24 15:12 Analyzed 02/01/24 15:12	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 5

Client Sample ID: FS02

Lab Sample ID: 890-6001-2

Date Collected: 01/19/24 12:00 Date Received: 01/22/24 08:34

Matrix: Solid

Sample Depth: 0-0.25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/01/24 09:30	02/02/24 06:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				02/01/24 09:30	02/02/24 06:31	1

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6001-1

SDG: Eddy County NM

Lab Sample ID: 890-6001-2

Matrix: Solid

Client Sample ID: FS02

Date Collected: 01/19/24 12:00 Date Received: 01/22/24 08:34

Sample Depth: 0-0.25

Method: SW846 8021B	- Volatile Organic	Compounds ((GC) (Continued)
---------------------	--------------------	-------------	------------------

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130	02/01/24 09:30	02/02/24 06:31	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			02/02/24 06:31	1

Method: SW846 8015 NM - Die	cal Pango Organico (DDO) (CC	Α.
Method. 344046 6013 MM - Die	sei Railye Organics (DRO) (GC	•

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	794	50.1	mg/Kg		_	02/01/24 15:34	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	ININ - Diesel Itali	ge Organics	(DitO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/25/24 09:18	02/01/24 15:34	1
Diesel Range Organics (Over C10-C28)	794		50.1		mg/Kg		01/25/24 09:18	02/01/24 15:34	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/25/24 09:18	02/01/24 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	01/25/24 09:18	02/01/24 15:34	1
o-Terphenyl	124		70 - 130	01/25/24 09:18	02/01/24 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		25.0		mg/Kg			01/29/24 01:01	5

Client Sample ID: FS03 Lab Sample ID: 890-6001-3

Date Collected: 01/19/24 12:10 Date Received: 01/22/24 08:34

Sample Depth: 0-0.25

Method: SW846 8021B -	M-1-4!1- O	0 (00)

motified. Offorto 5021B Totalio Organio Compoundo (CO)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
Toluene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/01/24 09:30	02/02/24 06:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				02/01/24 09:30	02/02/24 06:58	1	
1,4-Difluorobenzene (Surr)	102		70 - 130				02/01/24 09:30	02/02/24 06:58	1	

Method: TAI	SOP Total BTEX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			02/02/24 06:58	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/01/24 15:55	1

Eurofins Carlsbad

Matrix: Solid

Client: Etech Environmental & Safety Solutions Job ID: 890-6001-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Client Sample ID: FS03

Date Collected: 01/19/24 12:10 Date Received: 01/22/24 08:34

Sample Depth: 0-0.25

o-Terphenyl

Lab	Sample	ID:	890-6001-3
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02/01/24 15:55

01/25/24 09:18

Matrix: Solid

Method: SW846 8015B NM - Dies Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		01/25/24 09:18	02/01/24 15:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		01/25/24 09:18	02/01/24 15:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/25/24 09:18	02/01/24 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				01/25/24 09:18	02/01/24 15:55	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac 01/29/24 01:08 Chloride 4360 25.0 5 mg/Kg

70 - 130

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6000-A-5-D MS	Matrix Spike	85	73	
890-6000-A-5-E MSD	Matrix Spike Duplicate	112	91	
890-6001-1	FS01	137 S1+	117	
890-6001-2	FS02	106	81	
890-6001-3	FS03	67 S1-	102	
LCS 880-72099/1-A	Lab Control Sample	113	77	
LCSD 880-72099/2-A	Lab Control Sample Dup	119	97	
MB 880-71831/5-A	Method Blank	72	122	
MB 880-72099/5-A	Method Blank	57 S1-	94	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	e (Surr)			

BFB = 4-Bromofluorobenzene (Surr DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5998-A-61-B MS	Matrix Spike	147 S1+	108	
890-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105	
890-6001-1	FS01	164 S1+	133 S1+	
890-6001-2	FS02	159 S1+	124	
890-6001-3	FS03	152 S1+	120	
LCS 880-71569/2-A	Lab Control Sample	117	99	
LCSD 880-71569/3-A	Lab Control Sample Dup	118	110	
MB 880-71569/1-A	Method Blank	159 S1+	124	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Etech Environmental & Safety Solutions Job ID: 890-6001-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71831/5-A

Analysis Batch: 72133

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71831

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/2	9/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122		70 - 130	01/2	9/24 13:41	02/01/24 14:51	1

Lab Sample ID: MB 880-72099/5-A Matrix: Solid

Analysis Batch: 72133

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

Prep Batch: 72099

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Xvlenes Total	<0.00400	11	0.00400		ma/Ka		02/01/24 09:30	02/02/24 04:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	02/01/24 09:30	02/02/24 04:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/01/24 09:30	02/02/24 04:20	1

Lab Sample ID: LCS 880-72099/1-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 72099

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09326		mg/Kg		93	70 - 130	
Toluene	0.100	0.09349		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2349		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1275		mg/Kg		128	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1.4-Difluorobenzene (Surr)	77	70 - 130

Lab Sample ID: LCSD 880-72099/2-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72099

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09486	mg/Kg		95	70 - 130	2	35

Job ID: 890-6001-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-72099/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 72133** Prep Batch: 72099 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09056 91 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.09657 mg/Kg 97 70 - 130 4 35 m-Xylene & p-Xylene 0.200 0.2507 70 - 130 35 mg/Kg 125

0.1144

mg/Kg

114

70 - 130

11

Prep Batch: 72099

0.100

LCSD LCSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 119 1,4-Difluorobenzene (Surr) 97 70 - 130

Lab Sample ID: 890-6000-A-5-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

o-Xylene

Analysis Batch: 72133

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.0996	0.07697		mg/Kg		77	70 - 130
Toluene	<0.00199	U F2	0.0996	0.07119		mg/Kg		71	70 - 130
Ethylbenzene	< 0.00199	U	0.0996	0.08151		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1797		mg/Kg		90	70 - 130
o-Xylene	< 0.00199	U	0.0996	0.08490		mg/Kg		85	70 - 130

MS MS Qualifier Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 85 1,4-Difluorobenzene (Surr) 73 70 - 130

Lab Sample ID: 890-6000-A-5-E MSD

Matrix: Solid

Analysis Batch: 72133

Client	Sample	ID:	Matrix	Spike	Duplicate

Prep Type: Total/NA Prep Batch: 72099

Sample Sample MSD MSD %Rec Spike RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00199 U 0.0990 0.08463 mg/Kg 85 70 - 130 9 35 Toluene <0.00199 U F2 0.0990 0.1025 F2 mg/Kg 104 70 - 130 36 35 Ethylbenzene < 0.00199 0.0990 0.1019 mg/Kg 103 70 - 130 22 35 <0.00398 U 0.198 0.2287 70 - 130 m-Xylene & p-Xylene mg/Kg 115 24 35 0.0990 o-Xylene <0.00199 U 0.1063 mg/Kg 107 70 - 130 22 35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-71569/1-A

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA Prep Batch: 71569 мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 01/25/24 09:18 02/01/24 07:59 Gasoline Range Organics mg/Kg (GRO)-C6-C10

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Client Sample ID: Method Blank

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample I	D: MB	880-71569/1-A

Lab Sample ID: LCS 880-71569/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72087

Analysis Batch: 72087

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 71569

Job ID: 890-6001-1

	IND	III.D							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	159	S1+	70 - 130	01/25/24 09:18	02/01/24 07:59	1
l	o-Terphenyl	124		70 - 130	01/25/24 09:18	02/01/24 07:59	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71569

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1166 mg/Kg 117 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1258 126 70 - 130 mg/Kg C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-71569/3-A

Matrix: Solid

Analysis Batch: 72087

Prep Type: Total/NA

Prep Batch: 71569

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1051		mg/Kg		105	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1136		mg/Kg		114	70 - 130	10	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-5998-A-61-B MS

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 71569

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.3	U	1010	1136		mg/Kg		108	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.3	U F1	1010	1469	F1	mg/Kg		143	70 - 130	
C10 C20\										

C10-C28)

	IVIS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	108		70 - 130

Job ID: 890-6001-1 Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

105

Lab Sample ID: 890-5998-A-61-C MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Solid	Prep Type: Total/NA

Analysis Batch: 72087 Prep Batch: 71569 MSD MSD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Gasoline Range Organics <50.3 U 1010 1133 108 70 - 130 0 20 mg/Kg (GRO)-C6-C10

1010 Diesel Range Organics (Over <50.3 U F1 1497 F1 mg/Kg 146 70 - 1302 20 C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery S1+ 70 - 130 1-Chlorooctane 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71573/1-A Client Sample ID: Method Blank

70 - 130

Matrix: Solid Prep Type: Soluble

Analysis Batch: 71736

o-Terphenyl

MB MB MDL Unit Result Qualifier Analyte RL D Prepared Analyzed Dil Fac Chloride <5.00 5.00 01/28/24 21:56 U mg/Kg

Lab Sample ID: LCS 880-71573/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71736

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 272.1 mg/Kg 109

Lab Sample ID: LCSD 880-71573/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71736

LCSD LCSD RPD Spike %Rec Analyte Added Qualifier Unit %Rec RPD Result Limits Limit Chloride 250 273.7 109 90 - 110 mg/Kg

Lab Sample ID: 880-38374-A-12-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 71736

Chloride

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result Limits Unit %Rec Chloride F1 1250 110 90 - 110 2660 4029 mg/Kg

Lab Sample ID: 880-38374-A-12-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble Analysis Batch: 71736

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier Limits RPD Limit Analyte Unit D %Rec

4042 F1

mg/Kg

1250

F1

2660

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0

111

90 - 110

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6001-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	5035	
890-6001-2	FS02	Total/NA	Solid	5035	
890-6001-3	FS03	Total/NA	Solid	5035	
MB 880-72099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6000-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6000-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	8021B	72099
890-6001-2	FS02	Total/NA	Solid	8021B	72099
890-6001-3	FS03	Total/NA	Solid	8021B	72099
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
MB 880-72099/5-A	Method Blank	Total/NA	Solid	8021B	72099
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	8021B	72099
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72099
890-6000-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	72099
890-6000-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72099

Analysis Batch: 72226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	Total BTEX	
890-6001-2	FS02	Total/NA	Solid	Total BTEX	
890-6001-3	FS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	8015NM Prep	<u> </u>
890-6001-2	FS02	Total/NA	Solid	8015NM Prep	
890-6001-3	FS03	Total/NA	Solid	8015NM Prep	
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	8015B NM	71569
890-6001-2	FS02	Total/NA	Solid	8015B NM	71569
890-6001-3	FS03	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569

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Page 15 of 23

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6001-1 SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 72087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Total/NA	Solid	8015 NM	
890-6001-2	FS02	Total/NA	Solid	8015 NM	
890-6001-3	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Soluble	Solid	DI Leach	
890-6001-2	FS02	Soluble	Solid	DI Leach	
890-6001-3	FS03	Soluble	Solid	DI Leach	
MB 880-71573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38374-A-12-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38374-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6001-1	FS01	Soluble	Solid	300.0	71573
890-6001-2	FS02	Soluble	Solid	300.0	71573
890-6001-3	FS03	Soluble	Solid	300.0	71573
MB 880-71573/1-A	Method Blank	Soluble	Solid	300.0	71573
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	300.0	71573
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71573
880-38374-A-12-B MS	Matrix Spike	Soluble	Solid	300.0	71573
880-38374-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71573

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Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Analysis

300.0

SDG: Eddy County NM

Client Sample ID: FS01

Lab Sample ID: 890-6001-1

Matrix: Solid

EET MID

Job ID: 890-6001-1

Date Collected: 01/19/24 11:50 Date Received: 01/22/24 08:34

	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	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72226	02/02/24 06:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			72231	02/01/24 15:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 15:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	71573	01/25/24 09:38	SA	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-6001-2

5

Date Collected: 01/19/24 12:00 Matrix: Solid

71736

01/29/24 00:54

CH

Date Received: 01/22/24 08:34

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72226	02/02/24 06:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			72231	02/01/24 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 15:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	71573	01/25/24 09:38	SA	EET MIC
Soluble	Analysis	300.0		5			71736	01/29/24 01:01	CH	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-6001-3

Date Collected: 01/19/24 12:10 Date Received: 01/22/24 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 06:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72226	02/02/24 06:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			72231	02/01/24 15:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		5			71736	01/29/24 01:08	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6001-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date	
Texas	NELAP		T104704400-23-26	06-30-24	
• .	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6001-1 SDG: Eddy County NM

,	• • • • • • • • • • • • • • • • • • •	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6001-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-6001-1	FS01	Solid	01/19/24 11:50	01/22/24 08:34	0-0.2
890-6001-2	FS02	Solid	01/19/24 12:00	01/22/24 08:34	0-0.25
890-6001-3	FS03	Solid	01/19/24 12:10	01/22/24 08:34	0-0.25

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						Hobb	s, NM (5	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	0, Carlsb	ad, NM (57	5) 988-319		000		www.xenco.com		Page	of (
oject Manager:		ou			Bill to:	Bill to: (if different)		Jim Raley							Work	0	ments		1
ompany Name:	eTECH Enviromental & Safety Solutions.	romental	& Safety Sc	olutions, Inc	100	Company Name:		WPX Energy Permian, LLC	y Permi	an, LLC.			Progr	am: UST/F	Program: UST/PST PRP Brownfields RBC	Brownfield	A PRC	Superfund	IF
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ione:	832-541-7719	o		Emai	Email: Devon-team@etechenv.com, ilm.raley@dvn.com	-team@	eteche	nv.com.	m.raley	@dvn.cc	mo		Delive	Deliverables: EDD	a	ADaPT [Other:		1
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AMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes	Yes No	eţei	_		_				_		H.D	H-PO-HP	ago	
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al Containers:			Corrected Temperature:	emperature:	3.0	2	Ì	_	/d3) e	(9		-		_	_	Zn Ag	Zn Acetate+NaOH; Zn NaOH+Ascorbic Acid; SAPC	H; Zn Acid; SAPC	
Sample Ic	Sample Identification	Matrix	Date	Time	Depth	Grab/	# of	PH (80	ppolq	(100s							Sample Comments	omments	7
ű	FS01	S	1.19.24	11:50	-	Comp		+	×	1		+	I	+		-			-
ŭ	FS02	S	1.19.24	12:00	0-0.25	Comp	-	×	×	-	İ	+	I	-					_
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e: Signature of thi rvice. Eurofins Xe rofins Xenco. A n	e: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions rrice. Eurofins 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 euch losses are due to circumstances beyond the control rofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These forms will be arriored unless previously negotiat	for the cost	f samples consti of samples end oplied to each pi	itutes a valid pu shali not assun roject and a cha	rchase ordense and response of \$5 fo	ar from clie onsibility for	nt compa ir any los iple subm	y to Eurofir es or exper tted to Euro	s Xenco, i ses incurr fins Xenco	is affiliates ed by the cl	and subcor ient if such ralyzed. The	itractors. It losses are se terms w	assigns sta due to circu	ndard terms nstances be	Ild purchase order from client company to Eurofins Xenco, its affiliatos and subcontractors. It assigns standard terms and conditions baseume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These forms will be enforced unless previously magditated.	led,			-
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Loc: 890

2/2/2024

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6001-1

SDG Number: Eddy County NM

Login Number: 6001 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

4

Eurofins Carlsbad
Page 22 of 23

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6001-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 6001

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	N/A	

Released to Imaging: 5/28/2024 3:25:17 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Etech Environmental & Safety Solutions PO BOX 62228

Midland, Texas 79711

Generated 2/2/2024 12:24:09 PM

JOB DESCRIPTION

East Pecos Federal Com 22 #007H Eddy County NM

JOB NUMBER

890-6002-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Laboratory Job ID: 890-6002-1 SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

3

4

6

8

9

11

12

Definitions/Glossary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6002-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

2

Qualifiers

GC VOA

Qualifier

 Qualifier
 Qualifier Description

 F2
 MS/MSD RPD 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 Description

F1 MS and/or MSD recovery exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

Eisted 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)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

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Job ID: 890-6002-1

Case Narrative

Client: Etech Environmental & Safety Solutions Project: East Pecos Federal Com 22 #007H

Job ID: 890-6002-1

Eurofins Carlsbad

Job Narrative 890-6002-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/22/2024 8:46 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-6002-1), SW02 (890-6002-2) and SW03 (890-6002-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72099 and analytical batch 880-72133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-72133/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72099 and analytical batch 880-72133 was outside the control limits.

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: The surrogate recovery for the blank associated with preparation batch 880-71569 and analytical batch 880-72087 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW01 (890-6002-1), SW02 (890-6002-2), SW03 (890-6002-3), (890-5998-A-61-A), (890-5998-A-61-B MS) and (890-5998-A-61-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71569 and analytical batch 880-72087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-72087/20), (CCV 880-72087/31) and (CCV 880-72087/5). 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.

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

Lab Sample ID: 890-6002-1

Matrix: Solid

Date Received: 01/22/24 08:46 Sample Depth: 0-0.25

Client Sample ID: SW01 Date Collected: 01/19/24 12:20

Analyte	Result	Qualifier	RL	MDL Unit	t D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/l	 'Kg	02/01/24 09:30	02/02/24 07:25	1
Toluene	<0.00200	U	0.00200	mg/l	'Kg	02/01/24 09:30	02/02/24 07:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/l	'Kg	02/01/24 09:30	02/02/24 07:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/l	'Kg	02/01/24 09:30	02/02/24 07:25	1
o-Xylene	<0.00200	U	0.00200	mg/l	'Kg	02/01/24 09:30	02/02/24 07:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/l	'Kg	02/01/24 09:30	02/02/24 07:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			02/01/24 09:30	02/02/24 07:25	1
1,4-Difluorobenzene (Surr)	115		70 - 130			02/01/24 09:30	02/02/24 07:25	1

	Method: TAL SOP Total BTEX - Total	BTEX Cal	culation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Total BTEX	<0.00401	U	0.00401		mg/Kg			02/02/24 07:25	1

	Method: SW846 8015 NM - Diesel Ran	ige Organi	ics (DRO) (0	GC)						
	Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<50.0	U	50.0	r	mg/Kg			02/01/24 16:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 16:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 16:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Carrogate	7011CCOVCI y	Qualifici	Lilling		rrepared	Analyzea	Dii i uc
1-Chlorooctane	171	S1+	70 - 130		01/25/24 09:18	02/01/24 16:16	1
o-Terphenyl	139	S1+	70 - 130	(01/25/24 09:18	02/01/24 16:16	1
Г.,	_						

Wethod: EPA 300.0 - Anions, ion Ci	nromatograpny - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500	5.04	mg/Kg			01/29/24 01:15	1

Client Sample ID: SW02 Lab Sample ID: 890-6002-2 Date Collected: 01/19/24 12:30 **Matrix: Solid**

Date Received: 01/22/24 08:46 Sample Depth: 0-0.25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/01/24 09:30	02/02/24 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				02/01/24 09:30	02/02/24 07:51	1

Client Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

Lab Sample ID: 890-6002-2

Matrix: Solid

Client Sample ID: SW02

Date Collected: 01/19/24 12:30 Date Received: 01/22/24 08:46

Sample Depth: 0-0.25

Method: SW846 8021B -	Volatile Organic	Compounds (GC)	(Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	02/01/24 09:30	02/02/24 07:51	1

Method: TAL SOP 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		•	02/02/24 07:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		<u> </u>	02/01/24 16:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (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		01/25/24 09:18	02/01/24 16:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 16:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	01/25/24 09:18	02/01/24 16:37	1
o-Terphenyl	136	S1+	70 - 130	01/25/24 09:18	02/01/24 16:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	497		4.97		mg/Kg			01/29/24 01:21	1

Lab Sample ID: 890-6002-3 **Client Sample ID: SW03**

Date Collected: 01/19/24 12:40 Date Received: 01/22/24 08:46

Sample Depth: 0-0.25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
Toluene	< 0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/01/24 09:30	02/02/24 08:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				02/01/24 09:30	02/02/24 08:18	1
1,4-Difluorobenzene (Surr)	105		70 - 130				02/01/24 09:30	02/02/24 08:18	1

Method: TAL SOP 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			02/02/24 08:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			02/01/24 16:58	1

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Matrix: Solid

Client Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 890-6002-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Client Sample ID: SW03

Date Collected: 01/19/24 12:40 Date Received: 01/22/24 08:46

Sample Depth: 0-0.25

Chloride

Lab Sample ID: 890-6002-3

01/29/24 02:16

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 16:58	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 16:58	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/25/24 09:18	02/01/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130				01/25/24 09:18	02/01/24 16:58	1
o-Terphenyl -	131	S1+	70 - 130				01/25/24 09:18	02/01/24 16:58	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

4.98

mg/Kg

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6002-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County 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)	
890-6000-A-5-D MS	Matrix Spike	85	73	
890-6000-A-5-E MSD	Matrix Spike Duplicate	112	91	
890-6002-1	SW01	108	115	
890-6002-2	SW02	88	86	
890-6002-3	SW03	102	105	
LCS 880-72099/1-A	Lab Control Sample	113	77	
LCSD 880-72099/2-A	Lab Control Sample Dup	119	97	
MB 880-71831/5-A	Method Blank	72	122	
MB 880-72099/5-A	Method Blank	57 S1-	94	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-5998-A-61-B MS	Matrix Spike	147 S1+	108	
00-5998-A-61-C MSD	Matrix Spike Duplicate	150 S1+	105	
0-6002-1	SW01	171 S1+	139 S1+	
0-6002-2	SW02	169 S1+	136 S1+	
0-6002-3	SW03	170 S1+	131 S1+	
S 880-71569/2-A	Lab Control Sample	117	99	
SD 880-71569/3-A	Lab Control Sample Dup	118	110	
B 880-71569/1-A	Method Blank	159 S1+	124	

1CO = 1-Chlorooctane

DFBZ = 1,4-Difluorobenzene (Surr)

OTPH = o-Terphenyl

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Released to Imaging: 5/28/2024 3:25:17 PM

2

5

7

9

11

12

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71831/5-A

Matrix: Solid Analysis Batch: 72133 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71831

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:41	02/01/24 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:41	02/01/24 14:51	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	01/29/24 13:41	02/01/24 14:51	1
1,4-Difluorobenzene (Surr)	122	70 - 130	01/29/24 13:41	02/01/24 14:51	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72099

Analysis Batch: 72133

Matrix: Solid

Lab Sample ID: MB 880-72099/5-A

MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/01/24 09:30	02/02/24 04:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/01/24 09:30	02/02/24 04:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	02/01/2	24 09:30	02/02/24 04:20	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/01/2	24 09:30	02/02/24 04:20	1

Lab Sample ID: LCS 880-72099/1-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 72099

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09326 mg/Kg 93 70 - 130 Toluene 0.100 0.09349 mg/Kg 93 70 - 130 Ethylbenzene 0.100 0.1002 mg/Kg 100 70 - 130 0.200 m-Xylene & p-Xylene 0.2349 mg/Kg 117 70 - 130 0.100 0.1275 70 - 130 o-Xylene mg/Kg 128

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1.4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-72099/2-A

Matrix: Solid

Analysis Batch: 72133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72099

RPD

Spike LCSD LCSD %Rec Result Qualifier Analyte Added Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09486 mg/Kg 95 70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 890-6002-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-72099/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 72133** Prep Batch: 72099

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09056		mg/Kg		91	70 - 130	3	35
Ethylbenzene	0.100	0.09657		mg/Kg		97	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2507		mg/Kg		125	70 - 130	7	35
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6000-A-5-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Prep Batch: 72099 Analysis Batch: 72133

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.07697		mg/Kg	_	77	70 - 130	
Toluene	<0.00199	U F2	0.0996	0.07119		mg/Kg		71	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.08151		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1797		mg/Kg		90	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08490		mg/Kg		85	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 890-6000-A-5-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 72133** Prep Batch: 72099

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.08463		mg/Kg		85	70 - 130	9	35
Toluene	< 0.00199	U F2	0.0990	0.1025	F2	mg/Kg		104	70 - 130	36	35
Ethylbenzene	<0.00199	U	0.0990	0.1019		mg/Kg		103	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2287		mg/Kg		115	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1063		mg/Kg		107	70 - 130	22	35

		MSD	MSD	
Su	rrogate	%Recovery	Qualifier	Limits
4-E	Bromofluorobenzene (Surr)	112		70 - 130
1,4	1-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-71569/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 mg/Kg 01/25/24 09:18 02/01/24 07:59 Gasoline Range Organics

(GRO)-C6-C10

Analysis Batch: 72087

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Prep Batch: 71569

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

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

Lab Sample ID: MB 880-71569/1-A

Lab Sample ID: LCS 880-71569/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71569

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 09:18	02/01/24 07:59	1
	Diesel Range Organics (Over C10-C28)	Analyte Result Diesel Range Organics (Over <50.0 C10-C28)	Diesel Range Organics (Over <50.0 U	Analyte Result Qualifier RL Diesel Range Organics (Over C10-C28) <50.0	Analyte Result Qualifier RL MDL Diesel Range Organics (Over <50.0 U 50.0 C10-C28)	Analyte Result Qualifier RL MDL Unit Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28)	Analyte Result Qualifier RL MDL Unit Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28)	Analyte Result Qualifier RL MDL Unit D Prepared Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/25/24 09:18 C10-C28)	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Diesel Range Organics (Over C10-C28) <50.0

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	01/25/24 09:18	02/01/24 07:59	1
o-Terphenyl	124		70 - 130	01/25/24 09:18	02/01/24 07:59	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71569

Analysis Batch: 72087 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1166 117 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1258 mg/Kg 126 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-71569/3-A

Analysis Batch: 72087

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71569

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1051		mg/Kg		105	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1136		mg/Kg		114	70 - 130	10	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 118 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: 890-5998-A-61-B MS

Matrix: Solid

Analysis Batch: 72087

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71569

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1136		mg/Kg		108	70 - 130	
Diesel Range Organics (Over	<50.3	U F1	1010	1469	F1	mg/Kg		143	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	ualifier Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	108		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

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

Job ID: 890-6002-1 SDG: Eddy County NM

Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 72087									Prep	Batch:	71569
	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics GRO)-C6-C10	<50.3	U	1010	1133		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.3	U F1	1010	1497	F1	mg/Kg		146	70 - 130	2	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	150	S1+	70 - 130								
o-Terphenyl	105		70 - 130								
ethod: 300.0 - Anions,	Ion Chromat	ography									

Matrix: Solid											Prep	Type: S	olubl
Analysis Batch: 71736													
	MB	MB											
Analyte	Result	Qualifier		RL	MDL	Unit		D	Pr	epared	Analy	zed	Dil Fa
Chloride	<5.00	U		5.00		mg/Kg					01/28/24	21:56	
Lab Sample ID: LCS 880-71573/2-A								Clie	nt	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 71736													
•			Spike	LCS	LCS						%Rec		
Analyte			Added	Resul	Qua	lifier	Unit		D	%Rec	Limits		
Chloride			250	272.1			mg/Kg			109	90 - 110		
Lab Sample ID: LCSD 880-71573/3-A							Cli	ient Sa	am	nle ID: I	_ab Contro	ol Samn	le Dun
Matrix: Solid										pic ib. i		Type: S	
matrix. Cond												ijpo. c	Olubic
Analysis Batch: 71736													
Analysis Batch: 71736			Spike	LCSI	LCS	D					%Rec		RPD
Analysis Batch: 71736 Analyte			Spike Added		LCS Qua		Unit	Ī	D	%Rec	%Rec Limits	RPD	RPD Limit
Analyte					Qua		Unit mg/Kg		<u>D</u> .	%Rec 109			Limit
•			Added	Resul	Qua				<u>D</u> .	109	Limits	1	Limit 20
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS			Added	Resul	Qua			<u>!</u>	D .	109	Limits 90 - 110	1	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid			Added	Resul	Qua				D .	109	Limits 90 - 110	1 0: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736	e Sam	nple	Added	Resul 273.7	Qua				D .	109	Limits 90 - 110	1 0: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp	le Sam	•	Added 250	273.7	Qua	lifier			D .	109	Limits 90 - 110 Sample ID Prep	1 0: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp Analyte Rest	It Qua	•	Added 250 Spike	273.7	Qua	lifier	mg/Kg			109	Limits 90 - 110 Sample ID Prep %Rec	1 0: Matrix	Limit 20 Spike
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp Analyte Resi Chloride 12	It Qua	•	Added 250 Spike Added	Resul 273.7 MS Resul	Qua	lifier	mg/Kg Unit mg/Kg	!	<u> </u>	109 Client %Rec 102	Sample ID Prep %Rec Limits 90 - 110	1 9: Matrix Type: S	Spike coluble
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp Analyte Resu Chloride 12 Lab Sample ID: 890-6000-A-2-D MSD	It Qua	•	Added 250 Spike Added	Resul 273.7 MS Resul	Qua	lifier	mg/Kg Unit mg/Kg	!	<u> </u>	109 Client %Rec 102	Sample ID Prep *Rec Limits 90 - 110 C: Matrix S	1 D: Matrix Type: S	Spike coluble
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp Analyte Rest	It Qua	•	Added 250 Spike Added	Resul 273.7 MS Resul	Qua	lifier	mg/Kg Unit mg/Kg	!	<u> </u>	109 Client %Rec 102	Sample ID Prep %Rec Limits 90 - 110	1 9: Matrix Type: S	Spike coluble
Analyte Chloride Lab Sample ID: 890-6000-A-2-C MS Matrix: Solid Analysis Batch: 71736 Samp Analyte Rest Chloride 12 Lab Sample ID: 890-6000-A-2-D MSD Matrix: Solid Analysis Batch: 71736	It Qua	llifier	Added 250 Spike Added	Resul 273.7 MS Resul	Qua MS Qua	lifier	mg/Kg Unit mg/Kg	!	<u> </u>	109 Client %Rec 102	Sample ID Prep %Rec Limits 90 - 110	1 D: Matrix Type: S	Spike coluble

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0

102

90 - 110

251

120

375.2

mg/Kg

20

Chloride

Lab Sample ID: LCS 880-71577/2-A

Lab Sample ID: LCSD 880-71577/3-A

QC Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 890-6002-1 Project/Site: East Pecos Federal Com 22 #007H SDG: Eddy County NM

Lab Sample ID: MB 880-71577/1-A

Method: 300.0 - Anions, Ion Chromatography (Continued)

Matrix: Solid

Analysis Batch: 71737

Analysis Batch: 71737

Analysis Batch: 71737

Analysis Batch: 71737

Lab Sample ID: 890-6002-3 MS

Lab Sample ID: 890-6002-3 MSD

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

MB MB

Result Qualifier <5.00 U

RL 5.00

Spike

Added

250

Spike

Added

250

Spike

Added

249

MDL Unit mg/Kg

Qualifier

Qualifier

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

LCS LCS

LCSD LCSD

MS MS

Result Qualifier

Result

273.5

Result

272.7

678.6

D

D

Prepared

%Rec

%Rec

%Rec

105

109

109

01/29/24 01:55

Analyzed

%Rec

Limits

90 - 110

%Rec

Limits

90 - 110

%Rec

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Dil Fac

Prep Type: Soluble

Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

RPD

RPD

Limit

Client Sample ID: SW03 **Prep Type: Soluble**

Limits 90 - 110

Client Sample ID: SW03 **Prep Type: Soluble**

Analysis Batch: 71737

Sample Sample Spike Result Qualifier 416

Sample Sample

Qualifier

Result

416

Added 249 Result Qualifier 680.3

MSD MSD

Unit mg/Kg

%Rec 106

Limits 90 - 110

%Rec

RPD Limit 0 20

RPD

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Job ID: 890-6002-1 SDG: Eddy County NM

GC VOA

Prep Batch: 71831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71831/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	5035	
890-6002-2	SW02	Total/NA	Solid	5035	
890-6002-3	SW03	Total/NA	Solid	5035	
MB 880-72099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6000-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6000-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	8021B	72099
890-6002-2	SW02	Total/NA	Solid	8021B	72099
890-6002-3	SW03	Total/NA	Solid	8021B	72099
MB 880-71831/5-A	Method Blank	Total/NA	Solid	8021B	71831
MB 880-72099/5-A	Method Blank	Total/NA	Solid	8021B	72099
LCS 880-72099/1-A	Lab Control Sample	Total/NA	Solid	8021B	72099
LCSD 880-72099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72099
890-6000-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	72099
890-6000-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72099

Analysis Batch: 72227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	Total BTEX	
890-6002-2	SW02	Total/NA	Solid	Total BTEX	
890-6002-3	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	8015NM Prep	Trep Batem
890-6002-2	SW02	Total/NA	Solid	8015NM Prep	
890-6002-3	SW03	Total/NA	Solid	8015NM Prep	
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	8015B NM	71569
890-6002-2	SW02	Total/NA	Solid	8015B NM	71569
890-6002-3	SW03	Total/NA	Solid	8015B NM	71569
MB 880-71569/1-A	Method Blank	Total/NA	Solid	8015B NM	71569
LCS 880-71569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71569

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 72087	(Continued)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-71569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71569
890-5998-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71569
890-5998-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71569

Analysis Batch: 72232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Total/NA	Solid	8015 NM	
890-6002-2	SW02	Total/NA	Solid	8015 NM	
890-6002-3	SW03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Soluble	Solid	DI Leach	_
890-6002-2	SW02	Soluble	Solid	DI Leach	
MB 880-71573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6000-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6000-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 71577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6002-3	SW03	Soluble	Solid	DI Leach	
MB 880-71577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6002-3 MS	SW03	Soluble	Solid	DI Leach	
890-6002-3 MSD	SW03	Soluble	Solid	DI Leach	

Analysis Batch: 71736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-1	SW01	Soluble	Solid	300.0	71573
890-6002-2	SW02	Soluble	Solid	300.0	71573
MB 880-71573/1-A	Method Blank	Soluble	Solid	300.0	71573
LCS 880-71573/2-A	Lab Control Sample	Soluble	Solid	300.0	71573
LCSD 880-71573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71573
890-6000-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	71573
890-6000-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71573

Analysis Batch: 71737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6002-3	SW03	Soluble	Solid	300.0	71577
MB 880-71577/1-A	Method Blank	Soluble	Solid	300.0	71577
LCS 880-71577/2-A	Lab Control Sample	Soluble	Solid	300.0	71577
LCSD 880-71577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71577
890-6002-3 MS	SW03	Soluble	Solid	300.0	71577
890-6002-3 MSD	SW03	Soluble	Solid	300.0	71577

Lab Chronicle

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H

Lab Sample ID: 890-6002-1

Matrix: Solid

Job ID: 890-6002-1

SDG: Eddy County NM

Client Sample ID: SW01

Date Collected: 01/19/24 12:20 Date Received: 01/22/24 08:46

	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	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 07:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72227	02/02/24 07:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			72232	02/01/24 16:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 16:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 01:15	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-6002-2 Matrix: Solid

Date Collected: 01/19/24 12:30

Date Received: 01/22/24 08:46

	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	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 07:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72227	02/02/24 07:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			72232	02/01/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 16:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71573	01/25/24 09:38	SA	EET MID
Soluble	Analysis	300.0		1			71736	01/29/24 01:21	CH	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-6002-3 Date Collected: 01/19/24 12:40

Date Received: 01/22/24 08:46

	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	72099	02/01/24 09:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72133	02/02/24 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72227	02/02/24 08:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			72232	02/01/24 16:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71569	01/25/24 09:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72087	02/01/24 16:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71577	01/25/24 10:14	SA	EET MID
Soluble	Analysis	300.0		1			71737	01/29/24 02:16	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Job ID: 890-6002-1

Project/Site: East Pecos Federal Com 22 #007H

SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	NELAP		06-30-24	
,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
for which the agency di	oes not offer certification. Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1 SDG: Eddy County NM

y NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

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Sample Summary

Client: Etech Environmental & Safety Solutions Project/Site: East Pecos Federal Com 22 #007H Job ID: 890-6002-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-6002-1	SW01	Solid	01/19/24 12:20	01/22/24 08:46	0-0.2
890-6002-2	SW02	Solid	01/19/24 12:30	01/22/24 08:46	0-0.25
890-6002-3	SW03	Solid	01/19/24 12:40	01/22/24 08:46	0-0.25

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) So 1/2, 2	
120 / July 80 1/22 "	Time Relinquished by: (Signature) Received by: (Signature)
	200
,	4
9	9

Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

B Cd

BRCRA 13PPM Texas 11 Al Sb As Ba Be

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

200.8 / 6020:

otal 200.7 / 6010

Hg: 1631 / 245,1 / 7470 / 7471

Program: UST/PST | PRP | Brownfields | RRC | Superfund | Level IV DI Water: H₂O Preservative Codes MeOH: Me NaOH: Na HNO3: HN NaOH+Ascorbic Acid: SAPC Sample Comments nAPP2400434204 of Zn Acetate+NaOH; Zn Reporting: Level II | Level III | PST/UST | TRRP | NaHSO4: NABIS Na2S2O3: NaSO3 Other: Page Work Order Comments H3PO4: HP None: NO Cool: Cool H2S04: H2 HCL: HC 890-6002 Chain of Custody ADaPT Deliverables: EDD State of Project: 6000 ANALYSIS REQUEST Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (808) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 992-0309 Chain of Custody Email: Devon-team@etechenv.com, iim.raley@dvn.com WPX Energy Permian, LLC. (100E) XI 5315 Buena Vista Dr. Carlsbad, NM, 88220 Chloride (EPA 300.0) × × Jim Raley BTEX (8021) × × (2108) H9T # of Cont Pres. Parameters Bill to: (if different) Company Name: Comp 0-0.25' Comp City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm Grab/ 0-0.25' Comp 0-0.25' Comp 5 Day TAT Yes No Address Turn Around □ Rush (feet) Depth Due Date: eTECH Environmental & Safety Solutions, Inc. ☑ Routine Sampled Wet loe: Corrected Temperature: 12:20 12:30 12:40 Time (N/A Temperature Reading: N/A Correction Factor. Thermometer ID: East Pecos Federal Com 22 #007H Yes No Sampled 1.19.24 1.19.24 1.19.24 Date Eddy County, NM 13000 W County Rd 100 Gilbert Moreno Matrix 21277645 19579 Temp Blank: S Odessa, TX, 79765 S S Yes No Gilbert Moreno Yes No 832-541-7719 Kes ofins Sample Identification Samples Received Intact; SAMPLE RECEIPT Sample Custody Seals: SW02 Cooler Custody Seals: SW01 SW03 Project Manager Company Name: Sampler's Name: Project Location otal Containers. Project Number City, State ZIP: Project Name: Phone: :# OM

Loc: 890 6002

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6002-1

SDG Number: Eddy County NM

Login Number: 6002 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

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Released to Imaging: 5/28/2024 3:25:17 PM

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Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6002-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 01/23/24 12:33 PM

Login Number: 6002 List Number: 2

Creator: Rodriguez, Leticia

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	

APPENDIX G

Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



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

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**

QUESTIONS

Action 303408

QUESTIONS

Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	303408	
	Action Type:	
	[NOTIFY] Notification Of Sampling (C-141N)	

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2400434204			
Incident Name	NAPP2400434204 EAST PECOS FEDERAL COM 22 #007H @ 30-015-42287			
Incident Type	Produced Water Release			
Incident Status	Initial C-141 Approved			
Incident Well	[30-015-42287] EAST PECOS FEDERAL COM 22 #007H			

Location of Release Source			
Site Name	EAST PECOS FEDERAL COM 22 #007H		
Date Release Discovered	12/29/2023		
Surface Owner	Private		

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	7,098		
What is the estimated number of samples that will be gathered	20		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/19/2023		
Time sampling will commence	08:30 AM		

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Contact Gilbert Moreno 432-305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of US HWY285 and Longhorn Rd/ Whitehorn, Head east onto Longhorn Rd/Whitehorn Rd 2.5 miles, Slight left onto Longhorn Rd/ Whitehorn Rd 5.1 miles, continue straight 0.12 miles to gate. Call Gilbert when gate is located for further instruction.

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 303408

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	303408
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	Condition	Condition
Ву		Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/15/2024

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**

QUESTIONS

Action 303405

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	303405
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400434204
Incident Name	NAPP2400434204 EAST PECOS FEDERAL COM 22 #007H @ 30-015-42287
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42287] EAST PECOS FEDERAL COM 22 #007H

Location of Release Source	
Site Name	EAST PECOS FEDERAL COM 22 #007H
Date Release Discovered	12/29/2023
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	6,412
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/19/2023
Time liner inspection will commence	08:30 AM

warning: Notification can not be less than two business days prior to conducting finer inspection.	
Please provide any information necessary for observers to liner inspection	Contact Gilbert Moreno 432-305-6414
Please provide any information necessary for navigation to liner inspection site	From the intersection of US HWY285 and Longhorn Rd/ Whitehorn, Head east onto Longhorn Rd/Whitehorn Rd 2.5 miles, Slight left onto Longhorn Rd/ Whitehorn Rd 5.1 miles, continue straight 0.12 miles to gate. Call Gilbert when gate is located for further instruction.

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 303405

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	303405
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created	Condition	Condition
Ву		Date
jraley	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/15/2024

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

QUESTIONS

Action 327708

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 327708
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400434204
Incident Name	NAPP2400434204 EAST PECOS FEDERAL COM 22 #007H @ 30-015-42287
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42287] EAST PECOS FEDERAL COM 22 #007H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EAST PECOS FEDERAL COM 22 #007H
Date Release Discovered	12/29/2023
Surface Owner	Private

ncident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Human Error Production Tank Produced Water Released: 15 BBL Recovered: 14 BBL Lost: 1 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 327708

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	Fe, NM 87505	
QUESTIC	ONS (continued)	
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	
QUESTIONS	•	
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a sa	afetv hazard that would result in injury.	
The source of the release has been stopped True		
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
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.		

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 01/04/2024

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

QUESTIONS, Page 3

Action 327708

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 327708
Oklahoma Oity, Ok 73102	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between ½ and 1 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided	to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in	milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4360	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	794	
GRO+DRO (EPA SW-846 Method 8015M)	794	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comple which includes the anticipated timelines for beginning and completing the remediation.	eted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
On what estimated date will the remediation commence 01/19/2024		
On what date will (or did) the final sampling or liner inspection occur	01/19/2024	
On what date will (or was) the remediation complete(d)	01/19/2024	
What is the estimated surface area (in square feet) that will be reclaimed	1920	
What is the estimated volume (in cubic yards) that will be reclaimed	142	
What is the estimated surface area (in square feet) that will be remediated	1920	
What is the estimated volume (in cubic yards) that will be remediated 142		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 327708

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	327708
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Yes	
In which state is the disposal taking place	Texas	
What is the name of the out-of-state facility	R360	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/28/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 327708

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	327708
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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

QUESTIONS, Page 6

Action 327708

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Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	327708
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303408
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/19/2023
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	7098

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	1920			
What was the total volume (cubic yards) remediated	142			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	0			
What was the total volume (in cubic yards) reclaimed	0			
Summarize any additional remediation activities not included by answers (above)	Area will be reclaimed when facility deconstructed.			

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: James Raley
Title: EHS Professional
Email: jim.raley@dvn.com
Date: 03/28/2024

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QUESTIONS, Page 7

Action 327708

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 327708
,	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 327708

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	327708
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created B	y Condition	Condition Date
scwells	None	5/28/2024