



May 30, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Report
Energy Transfer Company
Shurvesa Interconnect Release
Lea County, New Mexico
DOR: 3/10/2022
Incident ID: nAPP2206954187
Approximate Release Point: 32.2411479°, -103.6229372°**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by Energy Transfer Company (ETC) to assess a release that occurred at the Shurvesa Interconnect Release (Site) due to the chemical hose separating from the fitting above the valve on the pipeline side of the pig launcher. The release footprint is entirely on pad and is located in Public Land Survey System (PLSS) Unit Letter P, Section 1, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.2411479°, -103.6229372°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 10, 2022. The release occurred as the result of the chemical hose separating from the fitting above the valve on the pipeline side of the pig launcher. An additional source was reported to have been due to the check valve also leaking. Based on the C-141, this release consisted of approximately 22.7 barrels (bbls) of crude oil and 270 gallons (gal) of corrosion inhibitor which affected an area of approximately 495 square feet. During initial response activities, a vacuum truck recovered approximately 3 bbls of crude oil and unknown amount of corrosion inhibitor. The initial C-141 was dated to have been submitted March 24, 2022 and received by The New Mexico Oil Conservation District (NMOCD) on March 25, 2022, who subsequently assigned it the Incident ID nAPP2206954187.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no wells within a ½ mile (800 meters) of the Site and the closest well with a documented depth to groundwater is 3,357 meters from the Site. This one well has a depth to water which is documented at 1,533 feet below ground surface (bgs).

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As the available water level information is from a well farther than ½ mile away from the site, ETC elected to drill a boring to verify depth to groundwater. On December 1, 2022, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (GWDB) to 55 feet bgs along the edge of the Shurvessa Interconnect lease pad. The borehole was temporarily set and screened using 2-inch PVC well materials. The borehole was left for a minimum of 72 hours and checked for the presence of groundwater. No water was present in the well on December 6, 2022, and the borehole was dry. The well screen and casing were removed, and the borehole was plugged with 3/8" bentonite chips. Based on this data, ETC proposes to use the 51 feet – 100 feet criteria listed in Table I of 19.15.29.12 NMAC. The borehole location is indicated on Figure 3. The site characterization data and GWDB boring log are included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech conducted initial assessment activities on October 13, 2022. Tetra Tech Geologist Joe Tyler met with ETC representative Ryan Reich and Standard Safety and Environmental representatives. The initial assessment consisted of the drilling and sampling of eight (8) hand auger borings (AH-1 through AH-8) to a maximum depth of 7 feet bgs. Of these borings, AH-1 to AH-4 were installed around the perimeters of the release extents to a depth of 1-foot bgs to determine the lateral extent of the impacted soil. The remaining borings (AH-5 to AH-8) were installed within the release footprint to depths ranging from 4 to 7 feet bgs in an attempt to determine the extent of the vertical impact of the release. The approximate release extent and the locations of the 8 hand auger borings are indicated in Figure 3. Photographic documentation of the Site conditions at the time of the assessment is presented in Appendix C.

A total of twenty-six (26) samples were collected from the hand auger borings with samples being collected at the surface and then at subsequent 1-foot depth intervals. All 26 samples were then transferred under chain of custody and analyzed within appropriate holding times by Eurofins-Xenco in Midland, Texas (Xenco). samples were hand delivered on October 14, 2022, and placed on a 5-day rush as requested by ETC. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method 300.0, and BTEX via Method 8021B. The approximate sample locations are shown on Figure 3.

Results from the October 13, 2022, soil sampling event are summarized in Table 1. The analytical results associated with boring locations AH-5 and AH-7 exceeded the Site specific RRAL for BTEX (50 mg/kg) to the boring depths of 4 and 5 feet bgs, respectively, in addition to exceeding the Site specific RRAL for TPH (2,500 mg/kg) to the total depths of 6 and 5 feet bgs, respectively. The results associated with the borings AH-6 and AH-8 also exceeded the Site specific RRAL for TPH (2,500 mg/kg) to the total depths of 3 and 2 feet bgs, respectively. No sample results exceeded the Site RRAL for chloride of 600 mg/kg. The results associated with the remainder of analyzed samples were below the Site RRALs for chloride, TPH, and BTEX. Based on the analytical results from the October 13, 2022, sampling event, horizontal delineation of the release was achieved but the vertical delineation of the release was only partially achieved during this assessment.

ADDITIONAL SITE ASSESSMENT AND RESULTS

Tetra Tech personnel returned to the Site on December 1, 2022, to conduct additional soil sampling to further determine vertical delineation. A total of two (2) borings (BH-1 and BH-2) were installed with an air rotary drilling rig within the release extent near the previously sampled boring locations AH-5 and AH-7, respectively. The approximate sample locations are shown on Figure 4.

A total of six (6) soil samples were collected to a total depth of 10 feet bgs, transferred under chain of custody, and analyzed within appropriate holding times by Xenco. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method 300.0, and BTEX via Method 8021B. The approximate sample locations are shown on Figure 3.

Results from the December 1, 2022, soil sampling event are also summarized in Table 1. The analytical results associated with boring locations BH-1 and BH-2 were all below the Site RRALs for chloride, TPH, and BTEX. Based on the additional analytical data results, horizontal and vertical delineation of the release has been achieved.

REMEDIATION WORK PLAN

Tetra Tech, on behalf of ETC, prepared the Remediation Work Plan for Incident ID NAPP22206954187. This Work Plan was submitted to NMOCD on January 9, 2023 and received by Jocelyn Harimon of the NMOCD. The Work Plan described the results of the initial response activities, release assessment and provided characterization of the impact at the Site. The Work Plan was approved via email by Jennifer Nobui of the NMOCD on January 31, 2023 with the following condition:

- *Remediation Plan Approved with Conditions. Please provide information and MSDS sheet on corrosion inhibitor released. Please test confirmation soil samples for constituents not listed in Table 1 of 19.15.29 NMAC for corrosion inhibitor. Variance for 500ft² is not approved, release is not massive enough to warrant 500ft² and laboratory narrative has some lab samples suspect. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.*

Documentation of associated regulatory correspondence is included in Appendix D.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From March 27 to April 12, 2023, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan and in accordance with the conditions of approval, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on April 4, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix D. Per the approved Work Plan, impacted soils were excavated as shown in Figure 4. The areas within the release footprint were excavated to depths ranging from 4 to 7 feet below surrounding grade. As prescribed in the approved Work Plan, impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint were dug by hand to the proposed depth. All excavated material was transported offsite for proper disposal. Approximately 200 cubic yards of material were transported to the Sundance Services Facility in Eunice, New Mexico. Copies of the waste manifests are included as Appendix E.

Closure Report
May 30, 2023

Energy Transfer Company

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per the conditions of the Work Plan approval, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. A total of five (5) confirmation floor samples and six (6) confirmation sidewall samples were collected during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas and depths and confirmation sample locations are indicated in Figure 5.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH via Method 8015 Modified, BTEX via Method 8021B, and chloride via Method 300.0. The analytical results were directly compared to the established Site RRALs and reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations to demonstrate compliance. Analytical results associated with Floor-1, Floor-4, Floor-5 and ESW-1 exceeded RRALs for TPH and/or BTEX, initially. Following deepening and/or expansion of the excavation in these areas, these locations were resampled. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH and BTEX. The results of the April 2023 confirmation sampling event are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Per the conditions of the Work Plan approval, in addition to all confirmation soil samples collected being analyzed for TPH, BTEX, and chlorides, they were to also be analyzed for *constituents not listed in Table 1 of 19.15.29 NMAC for corrosion inhibitor*. Based on the corrosion inhibitor SDS provided by ETC, it was determined that all final confirmation soil samples (floor and sidewall) were to be analyzed for Methanol via Method 8015 Modified. The corrosion inhibitor SDS can be found in Appendix B. All final confirmation soil samples (floor and sidewall) were below the lab's detection limit of (0.76 mg/kg) as well as being below NIOSH REL of (250 mg/kg). The results of the Methanol analysis are summarized in Table 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

RECLAMATION ACTIVITIES

As prescribed in the approved Work Plan, once confirmation sampling activities were completed and associated analytical results were below the RRALs and/or reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations, the excavated areas were backfilled with clean material to surface grade to resemble pre-release conditions. As the entirety of the proposed remediation area is on an active lease pad within an oil and gas production area, final reclamation will occur once the lease pad is no longer being used for oil and gas production. Therefore, seeding of the release area is deemed unnecessary until the end of the life of the lease pad. Photographic documentation of the excavated areas prior to and immediately following placement of backfill and seeding are provided in Appendix C.

CONCLUSION

ETC respectfully requests closure of Incident ID NAPP22206954187 based on the confirmation sampling results, and remediation activities performed at the Site. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (432) 210-6952 or Christian at (512) 565-0190.

Sincerely,
Tetra Tech, Inc.



Joe Tyler
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ryan Reich – Energy Transfer Company

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Initial Assessment and Release Extent

Figure 4 – Excavation Extent

Figure 5 – Confirmation Sampling Plan

Tables:

Table 1 – Summary of Analytical Results – Initial Soil Assessment

Table 2 – Summary of Analytical Results – Confirmation Sampling

Table 3 – Summary of Analytical Results – Additional Analytes

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

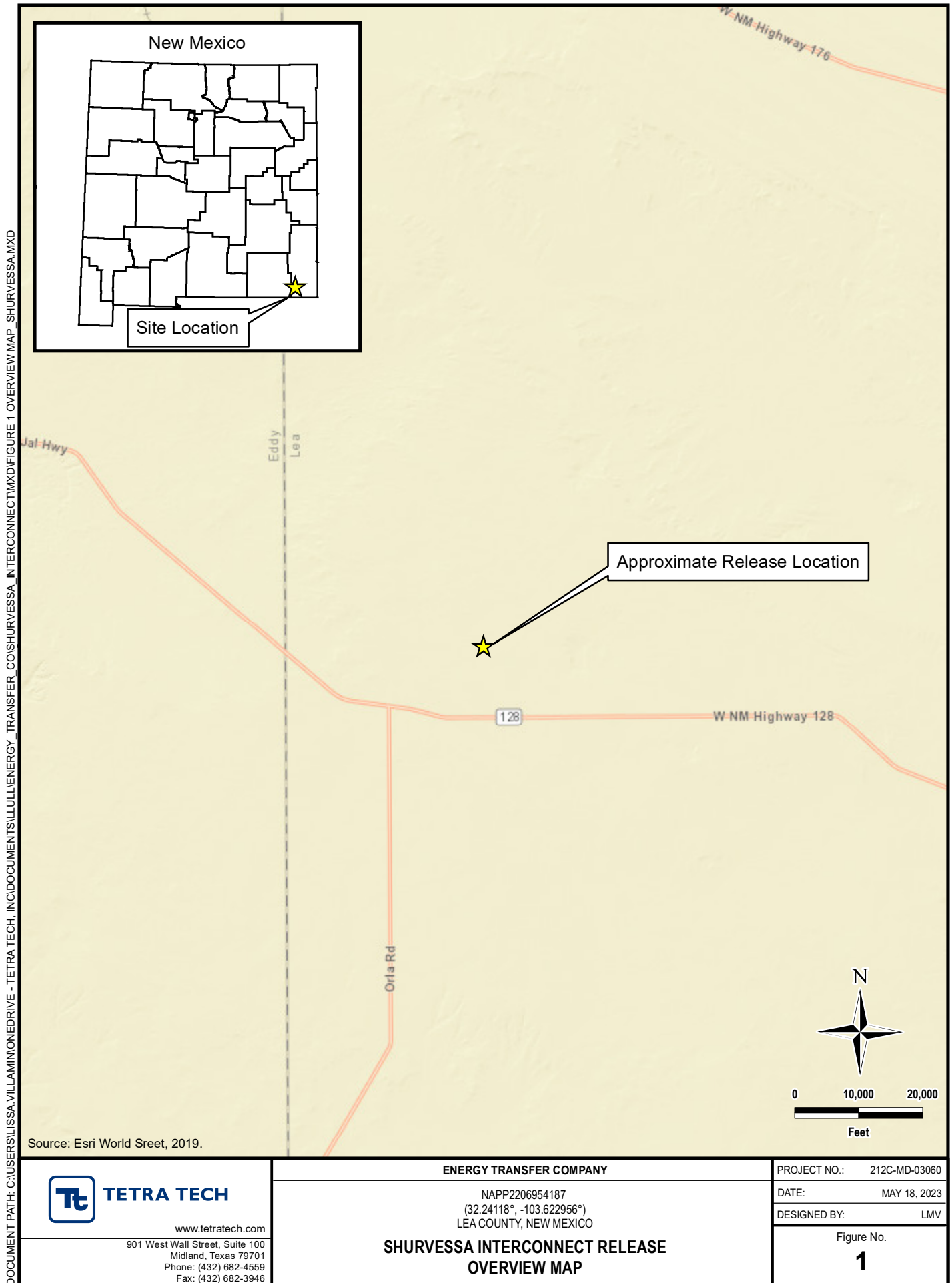
Appendix C – Photographic Documentation

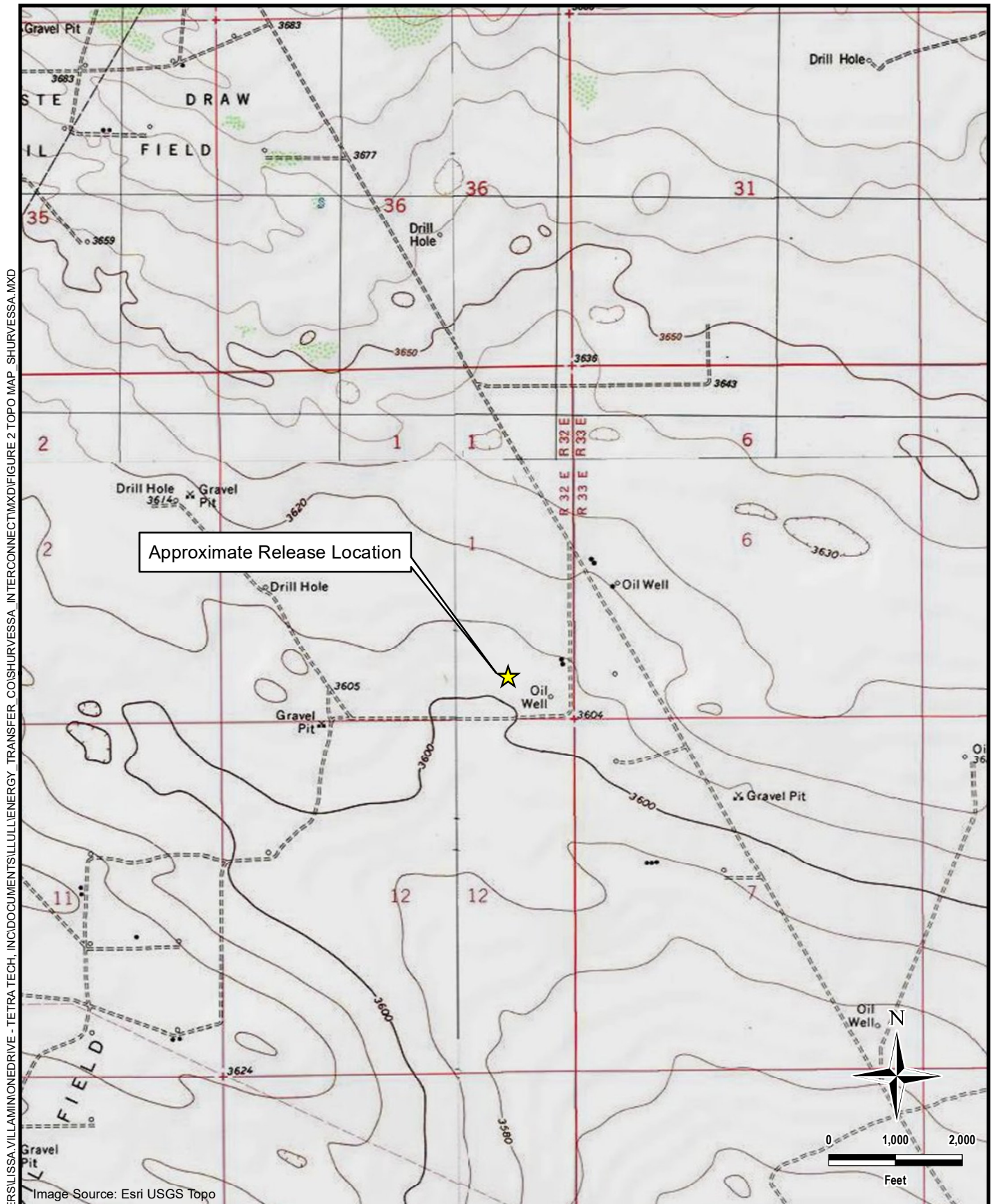
Appendix D – Regulatory Correspondence

Appendix E – Waste Manifests

Appendix F – Analytical Laboratory Data

FIGURES





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ENERGY TRANSFER COMPANY

NAPP2206954187
(32.24118°, -103.622956°)
LEA COUNTY, NEW MEXICO

**SHURVESSA INTERCONNECT RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03060

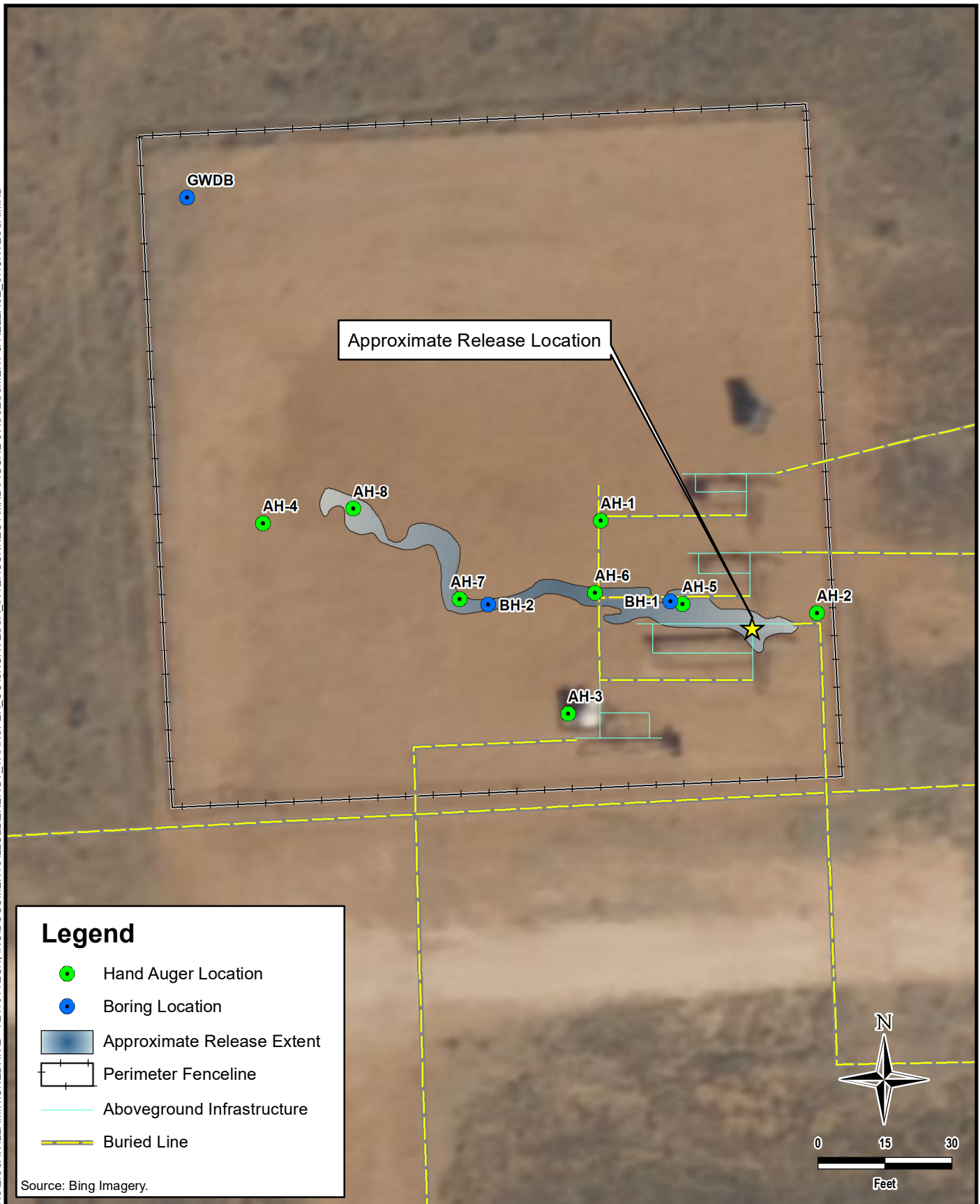
DATE: MAY 18, 2023

DESIGNED BY: LMV

Figure No.

2

DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH\INC\DOCUMENTS\ILLUSTRATIONS\ENERGY_TRANSFER_COISHURVESSA_INTERCONNECT\MXD\FIGURE 3 ASSESSMENT & RELEASE_SHURVESSA.MXD

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ENERGY TRANSFER COMPANY

NAPP2206954187
(32.24118°, -103.622956°)
LEA COUNTY, NEW MEXICO

**SHURVESSA INTERCONNECT RELEASE
INITIAL ASSESSMENT AND RELEASE EXTENT**

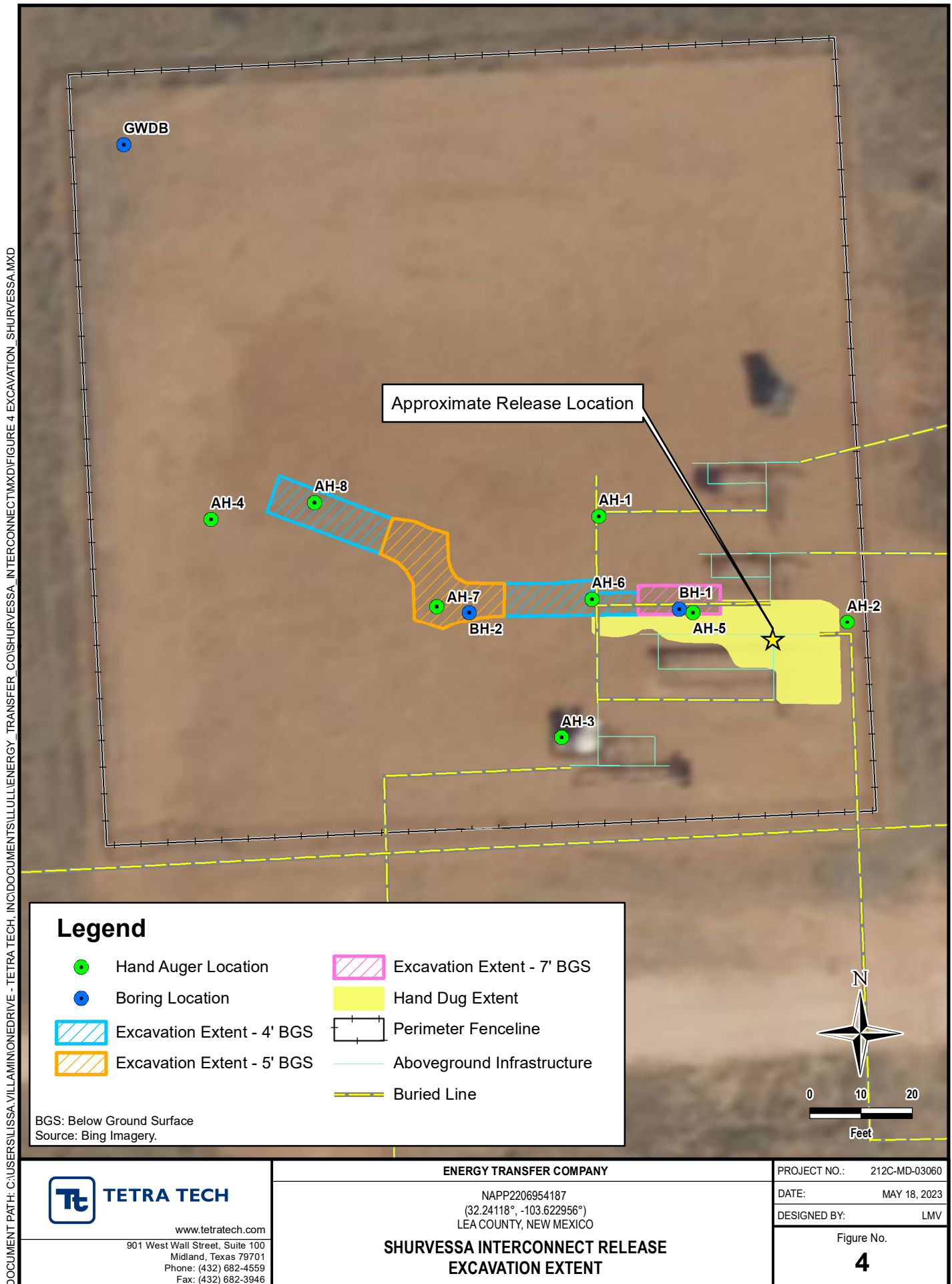
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DATE: MAY 18, 2023

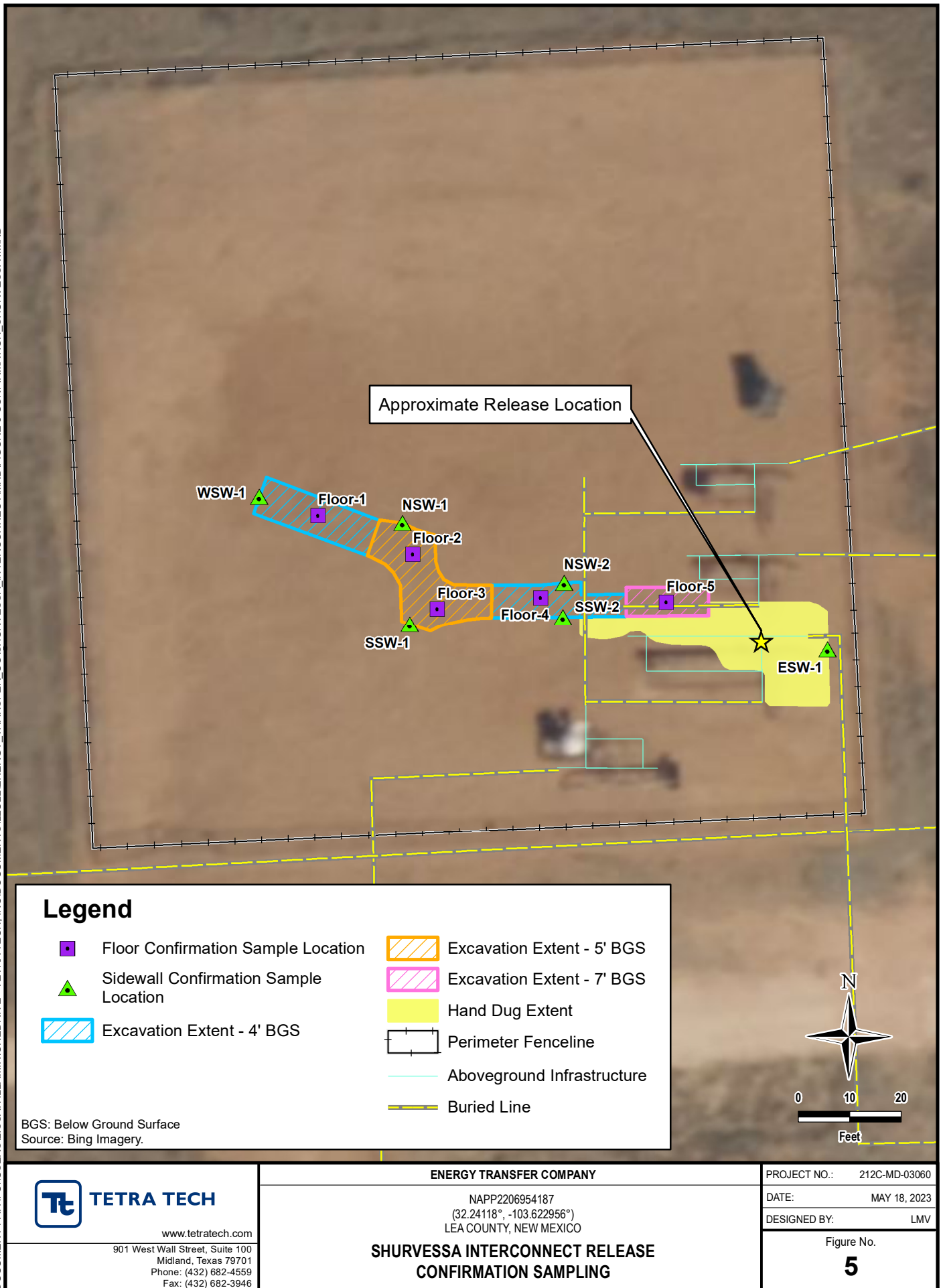
DESIGNED BY: LMV

Figure No.

3



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINON\DRIVE - TETRA TECH\INC\DOCUMENTS\ILLUSTRATIONS\ENERGY_TRANSFER_CO\SHURVESSA_INTERCONNECT\MXD\FIGURE 5 CONFIRMATION_SHURVESSA1.MXD



TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - nAPP2206954187
ENERGY TRANSFER COMPANY
SHURVESA INTERCONNECT RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	10/13/2022	0-1	17.2		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.8		<49.8		<49.8		<49.8
AH-2	10/13/2022	0-1	17.2		<0.00199		<0.00199		<0.00199		<0.00398		<0.00398		<49.9		<49.9		<49.9		<49.9
AH-3	10/13/2022	0-1	12.4		<0.00200		<0.00200		<0.00200		<0.00399		<0.00399		<49.8		<49.8		<49.8		<49.8
AH-4	10/13/2022	0-1	17.0		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<49.9		<49.9		<49.9		<49.9
AH-5 (BH-1)	10/13/2022	0-1	58.6		0.0757		0.2070		0.3600		3.73		4.37		201		5,620		607		6,430
	10/13/2022	1-2	53.7		0.3890		1.99		1.64		16.5		20.5		868		5,390		443		6,700
	10/13/2022	2-3	34.4		0.8380		1.53		3.65		48.2		54.2		1,540		6,140		498		8,180
	10/13/2022	3-4	18.9		1.46		7.91		4.64		50.3		64.3		1,160		4,330		354		5,840
	10/13/2022	4-5	-		<0.0503		4.22		3.64		28.0		35.8		1,400	*- *1	3,080	*- *1	<50.0		4,480
	10/13/2022	5-6	-		-		-		-		-		-		1,340		4,550		507		6,400
AH-6	10/13/2022	0-1	57.5		0.0043		0.0172		0.1060		12.0		12.1		453		5,310		553		6,320
	10/13/2022	1-2	19.0		0.3450		0.8620		2.60		29.3		33.1		917		4,760		427		6,100
	10/13/2022	2-3	21.7		0.0111		0.0670		0.2980		27.0		27.4		899		4,290		356		5,550
	10/13/2022	3-4	13.1		<0.00200		<0.00200		<0.00200		0.040		0.0400		<49.9		<49.9		<49.9		<49.9
AH-7 (BH-2)	10/13/2022	0-1	22.9		<0.0402		5.43		5.79		24.9		37.6		757		7,070		619		8,450
	10/13/2022	1-2	17.5		0.5840		13.1		9.91		45.9		69.5		1,150		6,180		515		7,850
	10/13/2022	2-3	17.0		0.7010		22.8		15.2		67.3		106		1,520		5,980		507		8,010
	10/13/2022	3-4	16.7		0.8330		18.6		13.5		58.9		91.8		1,450		4,300		386		6,140
	10/13/2022	4-5	21.5		<0.201		14.4		11.7		54.4		80.5		1,440		5,450		477		7,370
	10/13/2022	5-6	-		<0.00200		0.0870		0.0679		0.6080		0.7630		91.5	*- *1	388	*- *1	<49.9		480
	10/13/2022	6-7	-		-		-		-		-		-		<49.9		176		<49.9		176
AH-8	10/13/2022	0-1	16.1		0.1500		1.85		6.84		31.6		35.4		829		4,730		448		6,010
	10/13/2022	1-2	12.6		0.1140		0.5060		2.24		11.8		14.6		461		2,720		241		3,420
	10/13/2022	2-3	20.4		<0.00198		<0.00198		<0.00198		0.0083		0.0083		<49.9		<49.9		<49.9		<49.9
	10/13/2022	3-4	<5.02		<0.00200		<0.00200		<0.00200		<0.00401		<0.00401		<49.9		<49.9		58.8		58.8
	10/13/2022	4-5	<5.02		<0.00201		<0.00201		<0.00201		<0.00402		<0.00402		<50.0		<50.0		<50.0		<50.0
BH-1	12/1/2022	4-5	17.9		0.0345	*- *1	0.0575	*- *1	0.2990		<0.0802		0.3910		<49.9		<49.9		<49.9		<49.9
	12/1/2022	6-7	45.5		<0.00199	*- *1	<0.00199	*- *1	0.00466		0.0544	*+ *1	0.0591		<49.9		386		<49.9		386
	12/1/2022	9-10	23.9		<0.00199	*- *1	<0.00199	*- *1	<0.00199		0.0089	*+ *1	0.0089		<49.9		<49.9		<49.9		<49.9
BH-2	12/1/2022	4-5	30.6		<0.00200	*- *1	0.0123	*- *1	0.131		1.11	*+ *1	1.25		192		504		<49.9		696
	12/1/2022	6-7	19.7		<0.00201	*- *1	<0.00201	*- *1	<0.00201		0.00749	*+ *1	0.00749		<50.0		<50.0		<50.0		<50.0
	12/1/2022	9-10	26.7		<0.00200	*- *1	<0.00200	*- *1	0.0024		0.0118	*+ *1	0.0142		<49.9		<49.9		<49.9		<49.9

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

* Bold and highlighted values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - nAPP2206954187
ENERGY TRANSFER COMPANY
SHURVESA INTERCONNECT RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
Floor-1	4/4/2023	2	16.0		<1.00		1.66		5.18		51.9		58.8		871		3,870		563		5,304	
Floor-1	4/12/2023	4	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
Floor-2	4/4/2023	5	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
Floor-3	4/4/2023	5	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
Floor-4	4/4/2023	3	16.0		<1.00		3.84		4.87		60.2		68.9		1,110		5,890		849		7,849	
Floor-4	4/12/2023	4	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
Floor-5	4/4/2023	6	384		<0.050		<0.050		<0.050		0.264		<0.300		27.2		1,600		331		1,958	
Floor-5	4/12/2023	7	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
NSW-1	4/4/2023	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
NSW-2	4/4/2023	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		77.3		13.2		90.5	
SSW-1	4/4/2023	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
SSW-2	4/4/2023	-	16.0		<0.050		<0.050		<0.050		0.447		0.447		<10.0		<10.0		<10.0		<10.0	
WSW-1	4/4/2023	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
ESW-1	4/4/2023	-	16.0		<0.050		0.077		0.092		0.968		1.14		27.3		7,050		1,110		8,187	
ESW-1(2')	4/12/2023	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

* Bold and highlighted values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL ANALYTES - nAPP2206954187
ENERGY TRANSFER COMPANY
SHURVESA INTERCONNECT RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	MDL	Reporting Limit	Methanol ¹	
		ft. bgs	mg/kg	mg/kg	mg/kg	Q
Floor-1	4/12/2023	4	0.76	10	<0.76	
Floor-2	4/4/2023	5	0.76	10	<0.76	
Floor-3	4/4/2023	5	0.76	10	<0.76	
Floor-4	4/12/2023	4	0.76	10	<0.76	
Floor-5	4/12/2023	7	0.76	10	<0.76	
NSW-1	4/4/2023	-	0.76	10	<0.76	
NSW-2	4/4/2023	-	0.76	10	<0.76	
SSW-1	4/4/2023	-	0.76	10	<0.76	
SSW-2	4/4/2023	-	0.76	10	<0.76	
WSW-1	4/4/2023	-	0.76	10	<0.76	
ESW-1(2')	4/12/2023	-	0.76	10	<0.76	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method 8015 modified

APPENDIX A

C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ETC Texas Pipeline LTD	OGRID 371183
Contact Name	Lyanne Lara	Contact Telephone 432-425-5710
Contact email	Lyanne.Lara@energytransfer.com	Incident # (assigned by OCD) nAPP2206954187
Contact mailing address	600 N. Marienfeld St. Suite 700 Midland, TX 79701	

Location of Release Source

Latitude 32.2411479 _____ Longitude -103.6229372 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name ETC Shurvesa Interconnect	Site Type Crude Interconnect
Date Release Discovered 03/10/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	S1	T24S	R32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Bureau of Land Management _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 22.7	Volume Recovered (bbls) 3
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 270 gallons	Volume/Weight Recovered (provide units)

Cause of Release

The chemical hose had come apart from the fitting above the valve on the pipeline side of the pig launcher. A check valve also leaked due to not being sealed 100%. The valve was closed with leak source isolated. A vacuum truck was onsite to recover what could be picked up. Remediation is underway. Corrosion Inhibitor 330 gallon tank had just been filled prior to the spill; at the time of the spill, there was only 60 gallons remaining in tank – estimated 270 gallons released.


State of New Mexico
Oil Conservation Division

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
<div style="display: flex; justify-content: space-between;"> <div> Printed Name: _____ <u>Lyanne Lara</u> _____ </div> <div> Title: <u>Environmental Specialist</u> _____ </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> Signature: _____  _____ </div> <div> Date: <u>03/24/2022</u> _____ </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> email: <u>lyanne.lara@energytransfer.com</u> _____ </div> <div> Telephone: <u>432-425-5710</u> _____ </div> </div>	
<div style="border: 1px solid black; padding: 5px;"> <u>OCD Only</u> Received by: _____ Date: _____ </div>	

Liquid Spill in Soil Workbook												
Facility Name:	Shurvesa Interconnect											
Spill Date:	3/10/2022											
Liquid Recovered (vacuum truck)	0	(bbbls)										
Description	Area "A"	Area "B"	Area "C"	Area "D"	Area "E"	Area "F"	Area "G"	Area "H"	Area "I"	Area "J"	Area "K"	Area "L"
Length (ft.)	10	6	67									
Width (ft.)	21	14	3									
Depth (in.)	24.00	12.00	8.00									
Depth (feet)	2.00	1.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ft3 Total Soil	420.00	84	134	0	0	0	0	0	0	0	0	0
% Saturated Soil	100%	100%	100%									
ft3 of 100% Saturated Soil	420.00	84	134	0	0	0	0	0	0	0	0	0
Porosity Factor	Sand	Sand	Sand									
Area Spill Volume (bbbls in soil)	15.0	3.0	4.8									
Total Spill from all areas (in Soil)	0.0	(bbbls)										
Total Spill Volume from all areas.	22.7	(bbbls)	Net Spill volume	22.7	(bbbls)	954.44	(Gallons)					

Corrosion Inhibitor – 330 gallon tank had just been filled prior to the spill; at the time of the spill, there was only 60 gallons remaining in tank – estimated 270 gallons released

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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
District IV
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 92886

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 92886
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/12/2022

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/09/2023

Incident ID	NAPP2206954187
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____
Signature: Ryanne Pave Date: _____
email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/09/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 01/31/2023

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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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 173911

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 173911
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please provide information and MSDS sheet on corrosion inhibitor released. Please test confirmation soil samples for constituents not listed in Table 1 of 19.15.29 NMAC for corrosion inhibitor. Variance for 500ft2 is not approved, release is not massive enough to warrant 500ft2 and laboratory narrative has some lab samples suspect. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.	1/31/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Lynne Lara Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

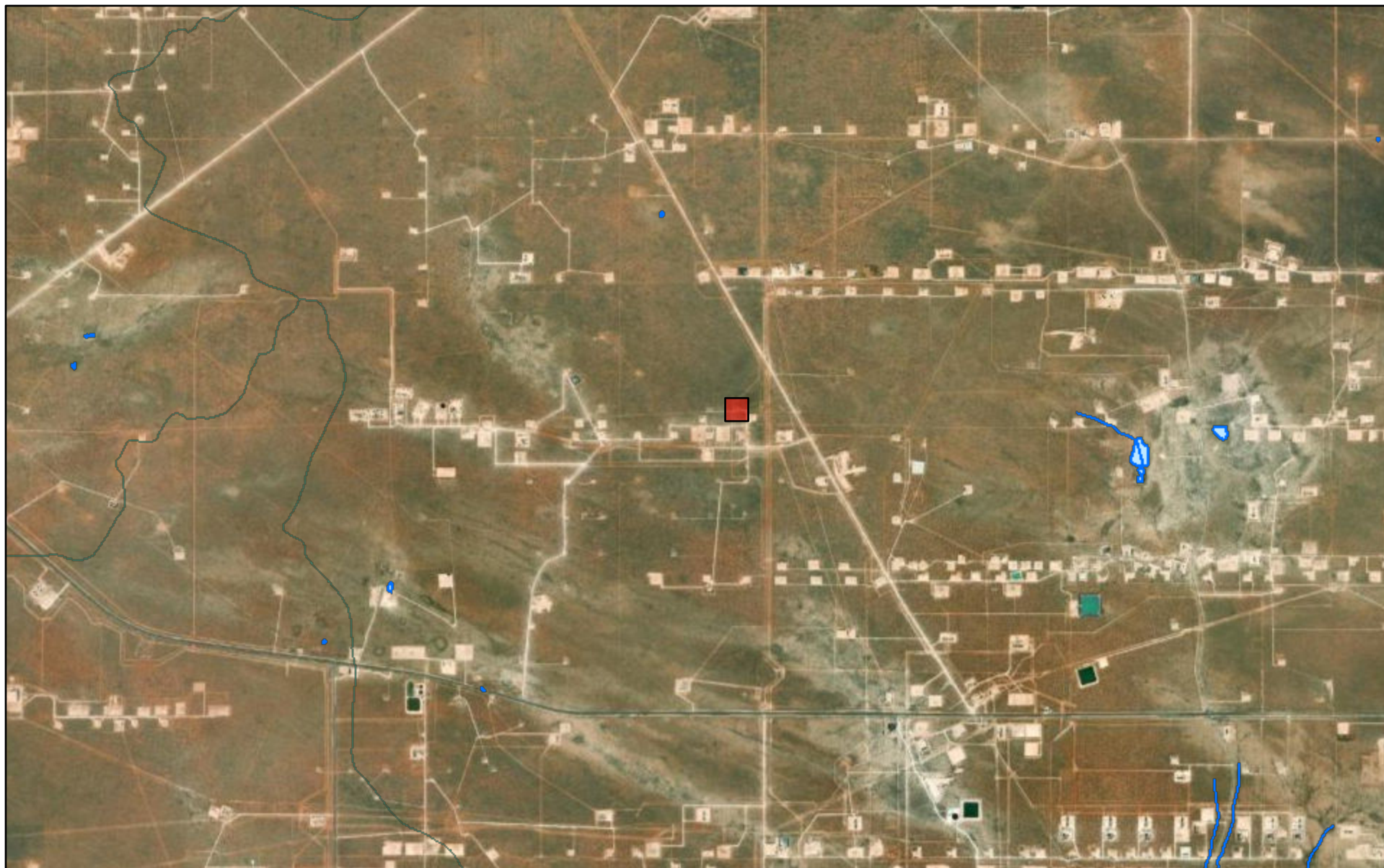
Closure Approved by: Nelson Velez Date: 06/14/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

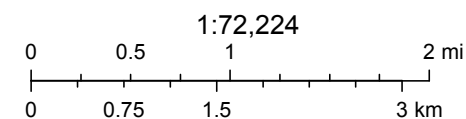
APPENDIX B

Site Characterization Data

New Mexico NFHL Data



October 31, 2022



FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS






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This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Karst Potential map

Energy Transfer - Shurvessa Interconnect Release

Legend

-  CRIT
-  HIGH
-  LOW
-  MEDIUM
-  Shurvessa Interconnect Release Location

 APPROXIMATE RELEASE POINT

Google Earth



6 mi

212C-MD-02921		TETRA TECH		LOG OF BORING DTW			Page 1 of 1	
Project Name: Shurvessa Interconnect Release								
Borehole Location/GPS Coordinate: 32.241447, -103.623363				Surface Elevation: ft				
Borehole Number: GWDB			Borehole Diameter (in.):		Date Started: 12/1/2022		Date Finished: 12/1/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			DRY ft DRY ft Remarks:			
												MATERIAL DESCRIPTION			
5												-SM- TOPSOIL (Sand): Reddish brown, loose, dry	4		
												-SM- SAND: Brown, loose, dry	8		
10												-SM- SAND: Brown to reddish brown, medium dense, dry, moderately cemented, with frequent clay seams			
15															
20												-SM- SAND: Brown, very loose, dry, trace gravel	20		
25															
30															
35															
40												-- Transitions to with occasional cemented layers			
45															
50															
55													55		

Bottom of borehole at 55.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an estimated value from Google Earth data.
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 629735.649

Northing (Y): 3567996.868

Radius: 800

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

11/1/22 10:30 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01932	C		ED	3	1	12	24S		32E	628633	3567188*	1367	492		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 629735.649

Northing (Y): 3567996.868

Radius: 1600

*UTM location was derived from PLSS - see Help

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

11/1/22 10:31 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01932	C		ED	3	1	12	24S	32E		628633	3567188*	1367	492		
C 04551 POD1	CUB		LE	4	4	3	31	23S	33E	630671	3569556	1818			
C 03591 POD1	CUB		LE	2	1	4	05	24S	33E	632731	3568518	3040			
C 03565 POD3	CUB		LE		3	4	08	24S	33E	632763	3566546	3357		1533	
C 03527 POD1	C		LE	1	2	3	03	24S	32E	625770	3568487	3996	500		
C 03528 POD1	C		LE	1	1	2	15	24S	32E	626040	3566129	4140	541	133	408

Average Depth to Water: **833 feet**

Minimum Depth: **133 feet**

Maximum Depth: **1533 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 629735.649

Northing (Y): 3567996.868

Radius: 4200

*UTM location was derived from PLSS - see Help

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

11/1/22 11:04 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



SAFETY DATA SHEET

Section 1. Identification

Product name : CRW9058A CORROSION INHIBITOR
Product code : CRW9058A

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Corrosion inhibitor.

Print date : 1/16/2020

Validation date : 1/16/2020


Version : 3.01

Supplier's details : Baker Petrolite LLC
 12645 W. Airport Blvd.
 Sugar Land, TX 77478
 For Product Information/SDSs Call: 800-231-3606
 (8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
 Baker Petrolite: 800-231-3606
 (001)281-276-5400
 CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :  FLAMMABLE LIQUIDS - Category 3
 ACUTE TOXICITY (oral) - Category 4
 SKIN CORROSION - Category 1
 SERIOUS EYE DAMAGE - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (optic nerve) - Category 1
 AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Flammable liquid and vapor.
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 Causes damage to organs. (optic nerve)
 Very toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

- Prevention** : Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves.. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
- Response** : Collect spillage. IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
- Storage** : Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Avoid contact with skin and clothing. Wash thoroughly after handling.
- Hazards not otherwise classified** : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Methanol	10 - 20	67-56-1
Salt of fatty acid polyamine	5 - 10	Trade secret.
Quaternary ammonium compound	5 - 10	Trade secret.
Alkyl amine	0.1 - 1	Trade secret.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.
- Inhalation** : Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion : Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes severe burns. Defatting to the skin.
Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : pain, watering, redness
Inhalation : No specific data.
Skin contact : pain or irritation, redness, dryness, cracking, blistering may occur
Ingestion : stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds

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Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protectionControl parametersOccupational exposure limits

Ingredient name	Exposure limits
Methanol	<p>ACGIH TLV (United States, 3/2018). Absorbed through skin.</p> <p>STEL: 328 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 262 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours.</p> <p>NIOSH REL (United States, 10/2016). Absorbed through skin.</p> <p>STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 10 hours. TWA: 200 ppm, 0 times per shift, 10 hours.</p> <p>OSHA PEL (United States, 5/2018).</p> <p>TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.</p> <p>STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours.</p>
Salt of fatty acid polyamine Quaternary ammonium compound Alkyl amine	None. None. None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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Section 8. Exposure controls/personal protection**Individual protection measures**

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.
- Hand protection** : Chemical-resistant gloves: Nitrile or Neoprene gloves.
- Skin protection** : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.
- Respiratory protection** : If a risk assessment indicates it is necessary, use a properly fitted supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties**Appearance**

- Physical state** : Liquid.
- Color** : Yellow to amber.
- Odor** : Sweet. [Strong]
- Odor threshold** : Not available.
- pH** : 4.5 to 5.5
- : Neat - without dilution
- Melting/freezing point** : Not available.
- Boiling point** : Not available.
- Initial Boiling Point** : Not available.
- Flash point** : Closed cup: 43°C (109.4°F) [TCC]
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : 40 kPa (299.9 mm Hg, 5.8 psig) @ 54.4°C, 130 F (Reid)
- Vapor density** : >1 [Air = 1]
- Relative density** : 0.975 (15.6°C)
- Density** : 8.12 (lbs/gal)
- Solubility in water** : Partial
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- VOC** : Not available.
- Pour Point** : -12.222°C (10°F)

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Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials and reducing materials.
Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium – including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Human	500 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Oral	Rat	426 mg/kg	-
	LD50 Oral	Rat	1000 to 1250 mg/kg	-
Quaternary ammonium compound	LD50 Oral			
Alkyl amine	LD50 Oral			

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

No applicable toxicity data

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Methanol	Category 1	Oral	optic nerve

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes severe burns. Defatting to the skin.
Ingestion : Harmful if swallowed.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	642.9 mg/kg
Dermal	2094.9 mg/kg
Inhalation (vapors)	20.95 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 37 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4.15 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 32.2 ppb	Fish - Pimephales promelas	34 days
Quaternary ammonium compound			

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Section 12. Ecological information

Persistence and degradability













Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2924	UN2924	UN2924	UN2924
UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium compound)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium compound)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium compound)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium compound)
Transport hazard class(es)	3 (8)   	3 (8)   	3 (8)   	3 (8)   
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. **Reportable quantity** 34843.2 lbs / 15818.8 kg [4286 gal / 16224.4 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

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Section 14. Transport information

- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E S-C
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.
- DOT Reportable Quantity** Methanol, 4291 gal of this product.
- Marine pollutant** Quaternary ammonium compound

North-America NAERG : 132

Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 12(b) one-time export:** No products were found.
TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Acetic acid

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Methanol	Methanol	10 - 20

SARA 302/304 : No products were found.


SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard

SARA 313

	Product name	CAS number	%
Supplier notification	Methanol	67-56-1	10 - 20

California Prop. 65

 **WARNING:** This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

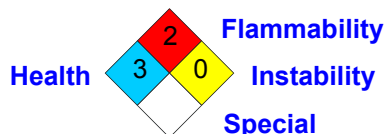
Canada

Canada (CEPA DSL): : All components are listed or exempted.

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Section 16. Other information

[National Fire Protection Association \(U.S.A.\)](#)



[History](#)

Date of printing : 1/16/2020

Indicates information that has changed from previously issued version.

[Notice to reader](#)

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

APPENDIX C

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View southeast towards the release source point and release area.	1
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View towards the south of the release extent on pad.	2
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



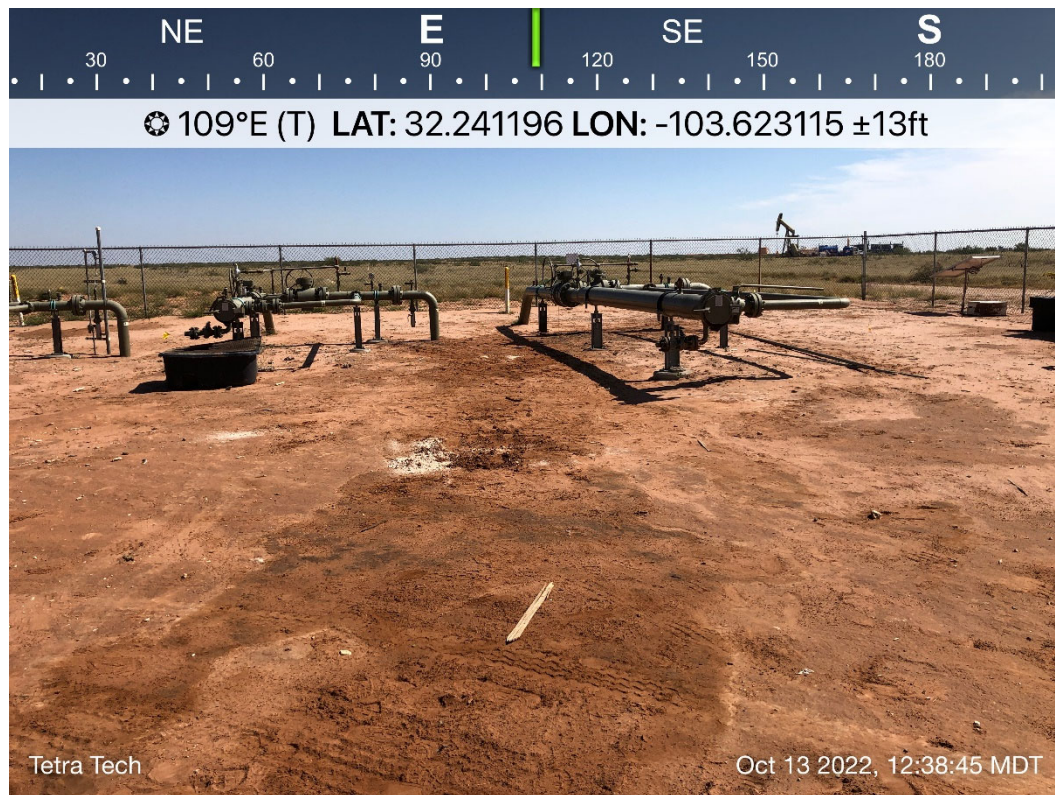
TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View southwest of the release extent on pad.	3
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View west of the release extent on pad.	4
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View southeast towards the release source point and release area.	5
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View southeast towards the release source point and release area.	6
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	10/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	7
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



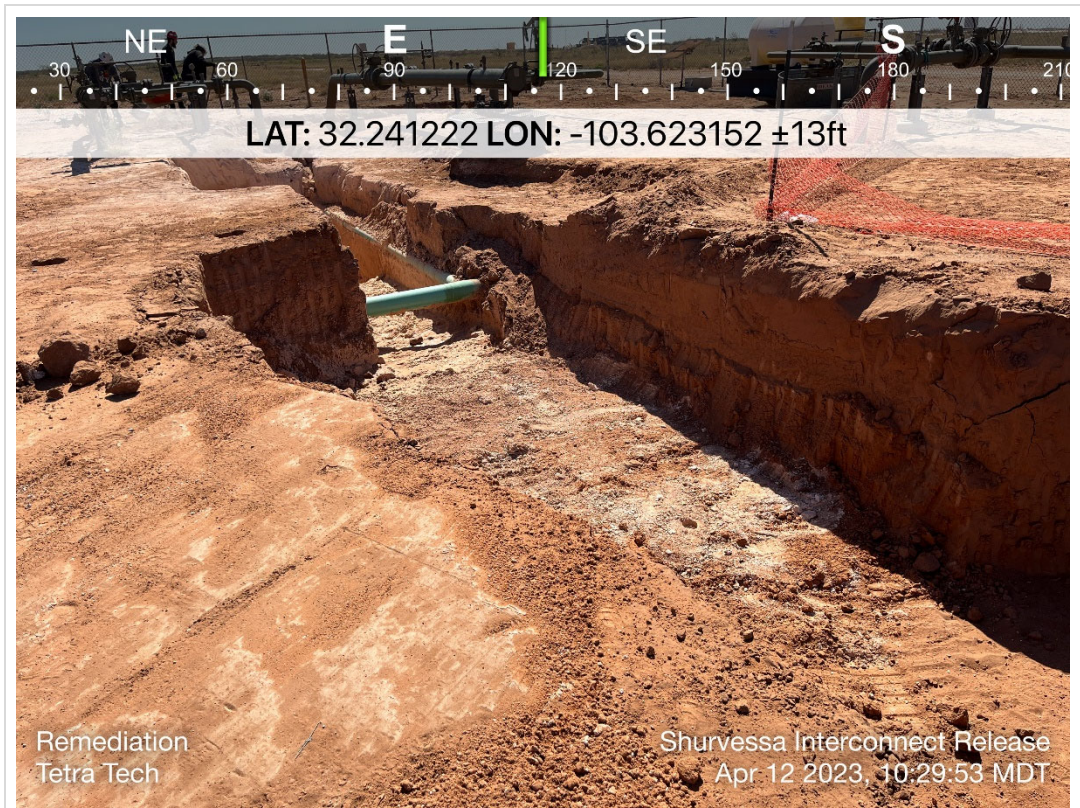
TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	8
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	9
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	10
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	11
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	12
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	13
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	14
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	15
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	16
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	17
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the excavation extent.	18
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	4/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	19
	SITE NAME	Energy Transfer Shurvesa Interconnect Release	5/10/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	20
	SITE NAME	Energy Transfer Shurvesa Interconnect Release	5/10/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	21
	SITE NAME	Energy Transfer Shurvesa Interconnect Release	5/10/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	22
	SITE NAME	Energy Transfer Shurvesa Interconnect Release	5/10/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	23
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	5/10/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03060	DESCRIPTION	View of the backfilled exaction extent.	24
	SITE NAME	Energy Transfer Shurvessa Interconnect Release	5/10/2023

APPENDIX D

Regulatory Correspondence

Tyler, Joe

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, March 29, 2023 2:10 PM
To: Tyler, Joe
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Incident ID: NAPP2206954187 - Confirmation Sampling

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. **⚠**

Joe,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Tyler, Joe <Joe.Tyler@tetrattech.com>
Sent: Wednesday, March 29, 2023 11:02 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Incident ID: NAPP2206954187 - Confirmation Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Incident ID (n#) **NAPP2206954187**

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities are beginning at the site, the week of March 27, 2023.

Thus, on behalf of Energy Transfer for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site no sooner than March 31, 2023.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Thank you,
Joe

Joe Tyler | Senior Staff Geologist | Tetra Tech
Mobile +1 (432) 210-6952 | joe.tyler@tetrattech.com

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

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
District IV
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 173911

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 173911
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please provide information and MSDS sheet on corrosion inhibitor released. Please test confirmation soil samples for constituents not listed in Table 1 of 19.15.29 NMAC for corrosion inhibitor. Variance for 500ft2 is not approved, release is not massive enough to warrant 500ft2 and laboratory narrative has some lab samples suspect. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.	1/31/2023

APPENDIX E

Waste Manifests



SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 668163

LEASE OPERATOR/SHIPPER/COMPANY: <u>ETI</u>	DATE: <u>11-15-23</u>
LEASE NAME: <u>Sundance Industries LLC</u>	TIME: <u>11:00</u> AM/PM
RIG NAME & NUMBER:	VEHICLE NO: <u>667</u>
TRANSPORTER COMPANY: <u>Sundance Safety Supply</u>	PHONE: <u>(305) 217-1111</u>
GENERATOR COMPANY MAN'S NAME: <u>John Smith</u>	PHONE: <u>(305) 217-1111</u>
CHARGE TO: <u>ETI</u>	

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:
☐ Solids ☒ Contaminated Soil ☐ Jet Out _____

Description: Oil

VOLUME OF MATERIAL ☐ BBLs. _____ : ☒ YARD 20 : ☐ _____

RRC or API # C-133# 1111

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]
(SIGNATURE)
 FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 668186

EASE OPERATOR/SHIPPER/COMPANY: ETC

DATE: 4/05/23

EASE NAME: Sundance Environmental

TIME: 12:15 AM/PM

RIG NAME & NUMBER:

VEHICLE NO: 007

TRANSPORTER COMPANY: Sundance Safety Services

PHONE:

GENERATOR COMPANY MAN'S NAME: Bryan + Leah

PHONE: (505) 309-7511

CHARGE TO: ETC

TYPE OF MATERIAL

☐ Tank Bottoms

☐ Drilling Fluids

☐ Rinsate

☐ BS&W Content:

☐ Solids

☒ Contaminated Soil

☐ Jet Out

Description: on

VOLUME OF MATERIAL

☐ BBLs. _____

0 YARD 00:

☐ _____

RRC or API #

C-133#

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)


White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

Released to Imaging: 6/14/2023 8:18:47 AM

 SUNDANCE SERVICES WEST, INC. PO Box 1737 Eunice, New Mexico 88231 Business: (575) 394-2511 • Disposal: (575) 390-7842		TICKET No. 668470											
LEASE OPERATOR/SHIPPER/COMPANY:		DATE:											
LEASE NAME:		TIME: AM/PM											
RIG NAME & NUMBER:		VEHICLE NO:											
TRANSPORTER COMPANY:		PHONE:											
GENERATOR COMPANY MAN'S NAME:		PHONE:											
CHARGE TO:													
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">TYPE OF MATERIAL</td> <td style="width: 25%;"><input type="checkbox"/> Tank Bottoms</td> <td style="width: 25%;"><input type="checkbox"/> Drilling Fluids</td> <td style="width: 25%;"><input type="checkbox"/> Rinsate</td> <td style="width: 20%;"><input type="checkbox"/> BS&W Content</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Solids</td> <td><input type="checkbox"/> Contaminated Soil</td> <td><input type="checkbox"/> Jet Out</td> <td></td> </tr> </table>				TYPE OF MATERIAL	<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Rinsate	<input type="checkbox"/> BS&W Content		<input type="checkbox"/> Solids	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Jet Out	
TYPE OF MATERIAL	<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Rinsate	<input type="checkbox"/> BS&W Content									
	<input type="checkbox"/> Solids	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Jet Out										
Description: _____													
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">VOLUME OF MATERIAL</td> <td style="width: 33%;"><input type="checkbox"/> BBLs. _____</td> <td style="width: 33%;"><input type="checkbox"/> YARD _____</td> <td style="width: 33%;"><input type="checkbox"/> _____</td> </tr> </table>				VOLUME OF MATERIAL	<input type="checkbox"/> BBLs. _____	<input type="checkbox"/> YARD _____	<input type="checkbox"/> _____						
VOLUME OF MATERIAL	<input type="checkbox"/> BBLs. _____	<input type="checkbox"/> YARD _____	<input type="checkbox"/> _____										
RRC or API #		C-133#											
STICKERS, CODES, NUMBERS, ETC.		AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901 et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.											
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.													
DRIVER: _____		_____											
(SIGNATURE)		(SIGNATURE)											
FACILITY REPRESENTATIVE: _____		_____											
(SIGNATURE)		(SIGNATURE)											
White - Sundance		Canary - Sundance Acct #1											
		Pink - Transporter											
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c													



SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 668282

OPERATOR/SHIPPER/COMPANY: ETC	DATE: 11-24-23
NAME: HUNTER HILLCORP	TIME: 12:55 AM/PM
NAME & NUMBER:	VEHICLE NO: 22
TRANSPORTER COMPANY: Standard Safety	PHONE:
GENERATOR COMPANY MAN'S NAME: Ryan Reich	PHONE: 132-269-154
CHARGE TO: ETC	

TYPE OF MATERIAL

<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Rinsate	<input type="checkbox"/> BS&W Content
<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Jet Out	

Description: DD

VOLUME OF MATERIAL

<input type="checkbox"/> BBLs. _____	<input checked="" type="checkbox"/> YARD 20	<input type="checkbox"/> _____
--------------------------------------	---	--------------------------------

RRC or API #

C-133#

UU

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]


(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

 SUNDANCE SERVICES WEST, INC. PO Box 1737 Elmer, New Mexico 88211 Business: (575) 994-2511 • Disposal: (575) 990-7842		TICKET No. 668484	
LEASE OPERATOR/SHIPPER/COMPANY: _____		DATE: 7/1/23	
LEASE NAME: _____		TIME: 11:00 AM/PM	
RIG NAME & NUMBER: _____		VEHICLE NO: 226	
TRANSPORTER COMPANY: _____		PHONE: _____	
GENERATOR COMPANY MAN'S NAME: _____		PHONE: _____	
CHARGE TO: _____			
TYPE OF MATERIAL	<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Rinsate
	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Jet Out
Description: _____			
VOLUME OF MATERIAL	<input type="checkbox"/> BBLs. _____	<input checked="" type="checkbox"/> YARD 20	<input type="checkbox"/> _____
RRC or API # _____		C-133# 111	
STICKERS, CODES, NUMBERS, ETC.		AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.			
DRIVER: _____		_____	
FACILITY REPRESENTATIVE: _____		_____	
White - Sundance		Canary - Sundance Acct #1	
		Pink - Transporter	
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c			



SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET I

LEASE OPERATOR/SHIPPER/COMPANY: ETC

DA

LEASE NAME: Shur USA - Interconnect

TI

RIG NAME & NUMBER:

VI

TRANSPORTER COMPANY: Skanska USA

PHONE:

GENERATOR COMPANY MAN'S NAME: Ryan Welch

PHONE:

CHARGE TO: ETC

TYPE OF MATERIAL

☐ Tank Bottoms

☐ Drilling Fluids

☐ Rinsate

☐ Solids

☒ Contaminated Soil

☐ Jet Out

Description:

VOLUME OF MATERIAL

☐ BBLs. :

☒ YARD 20 :

RRC or API #

C-133#

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE MATERIAL HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION, AND RECLAMATION ACT, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF BEING DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR OTHER HYDROCARBON.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT THE MATERIAL HEREWITH IS NOW DELIVERED TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Ticket at the above described location, and that it was tendered by the above described shipper. This will certify that the materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transp



SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231

Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET I

LEASE OPERATOR/SHIPPER/COMPANY: *ER*

LEASE NAME: *Shilvesh Interconnect*

RIG NAME & NUMBER:

TRANSPORTER COMPANY: *Stanford Safety Supply*

GENERATOR COMPANY MAN'S NAME: *Ryan Beach*

PHONE:

PHONE:

CHARGE TO: *CT*

TYPE OF MATERIAL

☐ Tank Bottoms

☐ Drilling Fluids

☐ Rinsate

☐ Solids

☒ Contaminated Soil

☐ Jet Out

Description: *ON*

VOLUME OF MATERIAL

☐ BBLs. _____ :

☒ YARD *20* :

RRC or API #

C-133# *1*

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE MATERIAL HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION, AND AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., 16 U.S.C. § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF BEING DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT THE MATERIAL BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transp

APPENDIX F

Laboratory Analytical Data



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 05, 2023

JOE TYLER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ETC SHURVESSA INTERCONNECT

Enclosed are the results of analyses for samples received by the laboratory on 04/04/23 14:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 1 (2') (H231542-01)

BTX 8021B		mg/L		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/04/2023	ND	2.12	106	2.00	8.58	
Toluene*	1.66	1.00	04/04/2023	ND	2.13	107	2.00	7.98	
Ethylbenzene*	5.18	1.00	04/04/2023	ND	2.20	110	2.00	9.45	
Total Xylenes*	51.9	3.00	04/04/2023	ND	6.72	112	6.00	9.94	
Total BTX	58.8	6.00	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	871	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	3870	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	563	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 166 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 2 (5') (H231542-02)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 3 (5') (H231542-03)

BTX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58	
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/05/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	20.9	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 4 (3') (H231542-04)

BTEx 8021B		mg/L		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/04/2023	ND	2.12	106	2.00	8.58	
Toluene*	3.84	1.00	04/04/2023	ND	2.13	107	2.00	7.98	
Ethylbenzene*	4.87	1.00	04/04/2023	ND	2.20	110	2.00	9.45	
Total Xylenes*	60.2	3.00	04/04/2023	ND	6.72	112	6.00	9.94	
Total BTEX	68.9	6.00	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1110	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	5890	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	849	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 211 % 48.2-134

Surrogate: 1-Chlorooctadecane 180 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 5 (6') (H231542-05)

BTEX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/05/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/05/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	0.264	0.150	04/05/2023	ND	6.72	112	6.00	9.94		
Total BTEX	<0.300	0.300	04/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.2	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	1600	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	331	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NSW - 1 (H231542-06)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NSW - 2 (H231542-07)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	77.3	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	13.2	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SSW - 1 (H231542-08)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94		
Total BTEX	<0.300	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SSW - 2 (H231542-09)

BTEX 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58		
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45		
Total Xylenes*	0.447	0.150	04/04/2023	ND	6.72	112	6.00	9.94		
Total BTEX	0.447	0.300	04/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: WSW - 1 (H231542-10)

BTX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	2.12	106	2.00	8.58	
Toluene*	<0.050	0.050	04/04/2023	ND	2.13	107	2.00	7.98	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.20	110	2.00	9.45	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.72	112	6.00	9.94	
Total BTX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/04/2023	Sampling Date:	04/04/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: ESW - 1 (H231542-11)

BTEX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2023	ND	2.12	106	2.00	8.58	
Toluene*	0.077	0.050	04/05/2023	ND	2.13	107	2.00	7.98	
Ethylbenzene*	0.092	0.050	04/05/2023	ND	2.20	110	2.00	9.45	
Total Xylenes*	0.968	0.150	04/05/2023	ND	6.72	112	6.00	9.94	
Total BTEX	1.14	0.300	04/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/05/2023	ND	432	108	400	3.64		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.3	10.0	04/05/2023	ND	160	79.9	200	11.6	
DRO >C10-C28*	7050	10.0	04/05/2023	ND	154	77.0	200	13.0	
EXT DRO >C28-C36	1110	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 02

Company Name: <u>Tetra Tech</u>		BILL TO		ANALYSIS REQUEST															
Project Manager: <u>Joe Tyler</u>		P.O. #:																	
Address:		Company: <u>Energy Transfer</u>																	
City:	State:	Zip:	Attn: <u>Ryan Reich</u>																
Phone #: <u>(432) 210-6952</u>	Fax #: NA		Address: <u>ryan.reich@</u>																
Project #:	Project Owner:		City: <u>energytransfer.com</u>																
Project Name: <u>ETC Shreveport Interconnect</u>			State: Zip:																
Project Location: <u>Lea County, NM</u>			Phone #:																
Sampler Name: <u>Joe Tyler</u>			Fax #:																
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	Chlorides	Hold						
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :								
	<u>H231542</u>																		
	1	Floor-1 (2')	G	1															
	2	Floor-2 (5')																	
	3	Floor-3 (5')																	
	4	Floor-4 (3')																	
	5	Floor-5 (6')																	
	6	NSW-1																	
	7	NSW-2																	
	8	SSW-1																	
	9	SSW-2																	
	10	WSW-1																	

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Relinquished By: <u>[Signature]</u>	Date: <u>4-4-23</u>	Received By: <u>[Signature]</u>	Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1407</u>		Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	Email Results to: <u>joe.tyler@tetratech.com</u>	
	Time:			
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <u>6.1c/5.5c</u>		Cool Intact	<u>[Signature]</u>	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Page 02 of 02

[illegible]

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Relinquished By: <i>[Signature]</i>		Date: <i>4-4-03</i>	Received By: <i>[Signature]</i>		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>1240</i>			Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:	Received By:		Email Results to:	
		Time:			<i>Same</i>	
Delivered By: (Circle One)		#113		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		<i>6.1°C / 5.5°C</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)	
				<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<i>[Signature]</i>	
				<input type="checkbox"/> No <input type="checkbox"/> No		

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 13, 2023

JOE TYLER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ETC SHURVESSA INTERCONNECT

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 13:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 1 (4') (H231732-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2023	ND	1.71	85.3	2.00	10.6		
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22		
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16		
Total BTEX	<0.300	0.300	04/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/12/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/12/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 4 (4') (H231732-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2023	ND	1.71	85.3	2.00	10.6		
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22		
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16		
Total BTEX	<0.300	0.300	04/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/12/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/12/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: FLOOR - 5 (7') (H231732-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2023	ND	1.71	85.3	2.00	10.6		
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22		
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16		
Total BTX	<0.300	0.300	04/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 JOE TYLER
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	ETC SHURVESSA INTERCONNECT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: ESW - 1 (2') (H231732-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2023	ND	1.71	85.3	2.00	10.6		
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22		
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03		
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16		
Total BTEX	<0.300	0.300	04/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: <u>Tetra Tech</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Joe Tyler</u>				P.O. #:																						
Address:				Company: <u>Energy Transfer</u>																						
City: State: Zip:				Attn: <u>Ryan Reich</u>																						
Phone #: <u>(432) 810-6952</u> Fax #: <u>NA</u>				Address: <u>ryan.reich@</u>																						
Project #: Project Owner:				City: <u>energytransfer.com</u>																						
Project Name: <u>ETC Shavessa Interconnect</u>				State: Zip:																						
Project Location: <u>Lea County, NM</u>				Phone #:																						
Sampler Name: <u>Joe Tyler</u>				Fax #:																						
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides	Hold								
<u>H231732</u>																										
<u>1</u>	<u>Floor -1 (4')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>4-12</u>	<u>1000</u>	<u>X</u>	<u>X</u>	<u>X</u>									
<u>2</u>	<u>Floor -4 (4')</u>	<u>↓</u>	<u>↓</u>			<u>↓</u>				<u>↓</u>			<u>↓</u>	<u>1030</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>									
<u>3</u>	<u>Floor -5 (7')</u>	<u>↓</u>	<u>↓</u>			<u>↓</u>				<u>↓</u>			<u>↓</u>	<u>1040</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>									
<u>4</u>	<u>ESW -1 (2')</u>	<u>↓</u>	<u>↓</u>			<u>↓</u>				<u>↓</u>			<u>↓</u>	<u>1100</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>									

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Relinquished By: <u>Joe Tyler</u>	Date: <u>4-12-23</u>	Received By: <u>[Signature]</u>	Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1308</u>		Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	Email Results to: <u>joel.tyler@tetra.tech.com</u>	
	Time:		<u>24-Hour rush</u>	
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	<u>4.3°C / 3.7°C</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>90</u>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 19, 2023

JOE TYLER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ETC SHURVESSA INTERCONNECT

Enclosed are the results of analyses for samples received by the laboratory on 04/04/23 14:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLOOR - 2 (5')	H231543-02	Soil	04-Apr-23 11:10	04-Apr-23 14:07
FLOOR - 3 (5')	H231543-03	Soil	04-Apr-23 11:20	04-Apr-23 14:07
NSW - 1	H231543-06	Soil	04-Apr-23 12:00	04-Apr-23 14:07
NSW - 2	H231543-07	Soil	04-Apr-23 12:30	04-Apr-23 14:07
SSW - 1	H231543-08	Soil	04-Apr-23 13:00	04-Apr-23 14:07
SSW - 2	H231543-09	Soil	04-Apr-23 13:10	04-Apr-23 14:07
WSW - 1	H231543-10	Soil	04-Apr-23 13:20	04-Apr-23 14:07

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

FLOOR - 2 (5')**H231543-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	13-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	13-Apr-23	EPA 8015m	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

FLOOR - 3 (5')**H231543-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

NSW - 1
H231543-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

NSW - 2
H231543-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

SSW - 1
H231543-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

SSW - 2
H231543-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

WSW - 1
H231543-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	
Ethanol	<0.94	0.94	10	mg/kg	1	23D0119	MM	14-Apr-23	EPA 8015m	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
19-Apr-23 12:06

Alcohols by EPA Method 8015 modified - Quality Control**SunStar Laboratories, Inc.**

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

Batch 23D0119 - EPA 3550B GC**Blank (23D0119-BLK1)**

Prepared: 07-Apr-23 Analyzed: 13-Apr-23

Methanol	ND	10	mg/kg
Ethanol	ND	10	mg/kg

Duplicate (23D0119-DUP1)**Source: H231543-02**

Prepared: 07-Apr-23 Analyzed: 13-Apr-23

Methanol	ND	10	mg/kg	ND	20
Ethanol	ND	10	mg/kg	ND	20

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 02

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 4-4-23		Received By: 		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1407		Received By:		Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One)		Date:		Received By:		Email Results to: Joe.Tyler@tetratech.com	
Sampler - UPS - Bus - Other: 6.1c/5.5i		Time:		Sample Condition			
				Cool Intact			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
				<input type="checkbox"/> Yes <input type="checkbox"/> No			
				CHECKED BY: (Initials)			
				JO			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CARDINAL
Laboratories

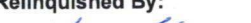





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 02 of 02

[illegible]

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Relinquished By:		Date:	Received By:	Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time:		Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Email Results to:	
		Time:			
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other:			Sample Condition	CHECKED BY:	
			Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	
			Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 24, 2023

JOE TYLER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ETC SHURVESSA INTERCONNECT

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 13:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: ETC SHURVESSA INTERCONNECT
Project Number: NONE GIVEN
Project Manager: JOE TYLER
Fax To: (432) 682-3946

Reported:
24-Apr-23 09:44

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLOOR - 1 (4')	H231733-01	Soil	12-Apr-23 10:00	12-Apr-23 13:08
FLOOR - 4 (4')	H231733-02	Soil	12-Apr-23 10:20	12-Apr-23 13:08
FLOOR - 5 (7')	H231733-03	Soil	12-Apr-23 10:40	12-Apr-23 13:08
ESW - 1 (2')	H231733-04	Soil	12-Apr-23 11:00	12-Apr-23 13:08

Cardinal Laboratories

*=Accredited Analyte

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Reported:
24-Apr-23 09:44

FLOOR - 1 (4')**H231733-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0249	MM	17-Apr-23	EPA 8015m	
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MIDLAND TX, 79701

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Project Number: NONE GIVEN
Project Manager: JOE TYLER
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Reported:
24-Apr-23 09:44

FLOOR - 4 (4')**H231733-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0249	MM	17-Apr-23	EPA 8015m	
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Project Number: NONE GIVEN
Project Manager: JOE TYLER
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Reported:
24-Apr-23 09:44

FLOOR - 5 (7')**H231733-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0249	MM	17-Apr-23	EPA 8015m	
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Project: ETC SHURVESSA INTERCONNECT
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Project Manager: JOE TYLER
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Reported:
24-Apr-23 09:44

ESW - 1 (2')
H231733-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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SunStar Laboratories, Inc.**Alcohols by EPA Method 8015 modified**

Methanol	<0.76	0.76	10	mg/kg	1	23D0249	MM	17-Apr-23	EPA 8015m
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Fax To: (432) 682-3946

Reported:
24-Apr-23 09:44

Alcohols by EPA Method 8015 modified - Quality Control**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 23D0249 - EPA 3550B GC**Blank (23D0249-BLK1)**

Prepared: 14-Apr-23 Analyzed: 17-Apr-23

Methanol	ND	10	mg/kg
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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL
Laboratories




CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

101 East Marland, Hobbs, NM 88240
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[illegible]

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Relinquished By: 		Date: 4-10-23 Time: 1308	Received By: 	Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Email Results to:	Add'l Phone #: Add'l Fax #:
Relinquished By:		Date: Time:	Received By:		
Delivered By: (Circle One)		#113 13° 15' 30"	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 223280

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 223280
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/14/2023